```
Welcome to STN International! Enter x:X
   LOGINID:SSPTAAKB1794
  PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2
   chain nodes:
15 16
ring nodes:
12 3 4 5 6 7 8 9 10 11 12 13 14
chain bonds:
13-15 13-16
ring bonds:
1-2 1-6 1-7 2-3 2-13 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12 12-14 13-14
exact bonds:
1-7 2-13 12-14 13-14 13-15 13-16
normalized bonds:
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12
isolated ring systems:
containing 1:
   Match level: 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:CLASS 16:CLASS
               STRUCTURE UPLOADED
  => s 11 sss full
FULL SEARCH INITIATED 13:53:43 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1308 TO ITERATE
  100.0% PROCESSED 1308 ITERATIONS SEARCH TIME: 00.00.01
                                                                                                                                                       395 ANSWERS
  L2
                            395 SEA SSS FUL L1
  => s 12
L3
=> s12

=> 13 and (electroluminescent or electroluminescence or (light emitting) or OLED)
92475 ELECTROLUMINESCENT
8 ELECTROLUMINESCENTS
92478 ELECTROLUMINESCENT OR ELECTROLUMINESCENTS)
26934 ELECTROLUMINESCENCE
30 ELECTROLUMINESCENCE
30 ELECTROLUMINESCENCE
6 (ELECTROLUMINESCENCE)
5 ELECTROLUMINESCENCE OR ELECTROLUMINESCENCES)
5 ELECTROLUMINESCENCE OR ELECTROLUMINESCENSE)
1352467 LIGHT
12844 LIGHTS
1356774 LIGHT
12844 LIGHTS
1356774 LIGHT
(LIGHT OR LIGHTS)
143445 EMITTING
228 EMITTINGS
143491 EMITTING
143445 EMITTING
(EMITTING OR EMITTINGS)
78543 LIGHT EMITTING
7740 OLED
3828 OLEDS
9686 OLED
(OLED OR OLEDS)

L4
8 L3 AND (ELECTROLUMINESCENT OR ELECTROLUMINESCENCE OR (LIGHT EMITTING)
(OLED OR OLEDS)

=> d ibib abs hitstr 1-
                        1160 L2
   => d ibib abs hitstr 1- YOU HAVE REQUESTED DATA FROM 8 ANSWERS - CONTINUE? Y/(N):y
```

```
ring nodes:
1 2 3 4 5 6 7 8 9 10 11 12 13 14
ring bonds:
1-2 1-6 1-7 2-3 2-13 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12 12-14 13-14
exact/norm bonds:
1-7 2-13 12-14 13-14
normalized bonds:
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12
isolated ring systems:
containing 1:
 G1:C,O,S,N,P,Si,B
  G2:0,S,N,P,B
 Match level: 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom
  L5
                           STRUCTURE UPLOADED
 => s 15 sss full
FULL SEARCH INITIATED 13:57:59 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 2384835 TO ITERATE
 83.9% PROCESSED 2000000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.07
                                                                                                                                                                                                                                                                                           15305 ANSWERS
 FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
PROJECTED TERRATIONS: 2384835
PROJECTED ANSWERS: 2384835
PROJECTED ANSWERS: 17848

**INCOMPLETE**
2384835
PROJECTED ANSWERS: 21848

**INCOMPLETE**
2384835
PROJECTED ANSWERS: 21848

**INCOMPLETE**
2384835

**INCOMPLETE**
23848
 L6
                                             15305 SEA SSS FUL L5
=> s 16
L7 2681 L6
=> 17 and (electroluminescent or electroluminescence or (light emitting) or OLED)
92475 ELECTROLUMINESCENT
8 ELECTROLUMINESCENTS
92478 ELECTROLUMINESCENTS
(ELECTROLUMINESCENT OR ELECTROLUMINESCENTS)
26934 ELECTROLUMINESCENCE
30 ELECTROLUMINESCENCE
26939 ELECTROLUMINESCENCE
(ELECTROLUMINESCENCE OR ELECTROLUMINESCENCES)
5 ELECTROLUMINESCENCE
6940 ELECTROLUMINESCENCE
(ELECTROLUMINESCENCE OR ELECTROLUMINESCENCES)
6 ELECTROLUMINESCENCE OR ELECTROLUMINESCENCE
(ELECTROLUMINESCENCE OR ELECTROLUMINESCENSE)
                                 20390 ELECTROLOWANESCENCE OR ELECTROLUMINESCENSE)
1352467 LIGHT
12844 LIGHTS
1356774 LIGHT
                                 1356774 LIGHT
(LIGHT OR LIGHTS)
143446 EMITTING
228 EMITTING
143491 EMITTING
(EMITTING OR EMITTINGS)
78543 LIGHT EMITTING
(LIGHT (W) EMITTING)
7740 OLED
3288 OLEDS
9686 OLED
(OLED OR OLEDS)
49 L7 AND (ELECTROLUMINESCENT OR ELECTROLUMINESCENCE OR (LIGHT EMITTING) OR OLED)
 L8
 => d ibib abs hitstr 1- YOU HAVE REQUESTED DATA FROM 49 ANSWERS - CONTINUE? Y/(N):y
  =>
  ---Logging off of STN---
  =>
Executing the logoff script...
ring nodes:
1 2 3 4 5 6 7 8 9 10 11 12 13 14
ring bonds:
1-2 1-6 1-7 2-3 2-10 3-4 4-5 5-6 7-8 7-11 8-9 8-14 9-10 11-12 12-13 13-14
exact bonds:
```



```
1-7 2-10 8-9 9-10 normalized bonds: 1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-11 8-14 11-12 12-13 13-14 isolated ring systems: containing 1:
Match level:
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom
        STRUCTURE UPLOADED
L1
=> s 11 sss full
FULL SEARCH INITIATED 09:41:19 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 18009 TO ITERATE
100.0% PROCESSED 18009 ITERATIONS SEARCH TIME: 00.00.01
                                                                                                     5197 ANSWERS
L2 5197 SEA SSS FUL L1
=> s 12
L3 2454 L2
=> 13 and (py<=2003)
24053089 PY<=2003
L4 1817 L3 AND (PY<=2003)
chain nodes : 16 17 ring nodes : 1 2 3 4 5 6 7 8 9 10 11 12 13 14 chain bonds : 4-17 13-16
4-17 13-16 ring bonds:
1-2 1-6 1-7 2-3 2-10 3-4 4-5 5-6 7-8 7-11 8-9 8-14 9-10 11-12 12-13 13-14 exact/nom bonds:
4-17 13-16 exact/nom bonds:
4-17 13-16 exact bonds:
1-7 2-10 8-9 9-10 normalized bonds:
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-11 8-14 11-12 12-13 13-14 isolated ring systems: containing 1:
G1:A,Id
Match level:
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 16:CLASS 17:CLASS
L5
        STRUCTURE UPLOADED
=> s 15 sss full
FULL SEARCH INITIATED 09:44:48 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 18009 TO ITERATE
100.0% PROCESSED 18009 ITERATIONS SEARCH TIME: 00.00.01
                                                                                                    1206 ANSWERS
L6
             1206 SEA SSS FUL L5
=> s 16
L7 313 L6
=> 17 and (py<=2003)
24053089 PY<=2003
L8 165 L7 AND (PY<=2003)
=> d ibib abs hitstr 1- YOU HAVE REQUESTED DATA FROM 165 ANSWERS - CONTINUE? Y/(N):y
  L8 ANSWER 1 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN
Accession Number
2008:1383594 CAPLUS Full-text
Document Number
149:555100
Title
          The Baeyer-Villiger oxidation of ketones and aldehydes
Author/Inventor
Krow, Grant R.
Patent Assignee/Corporate Source
Temple Univ., Philadelphia, PA, USA
```

Source Organic Reactions (Hoboken, NJ, United States) (1993), 43, No pp. given CODEN: ORHNBA URL: http://www3.interscience.wiley.com/ogic bin/mrwhome/107610747/HOME Document Type

```
Journal; General Review; (online computer file)
```

Language English

Abstract

A review of the article The Baeyer-Villiger oxidation of ketones and aldehydes. Hit Structure

CAS Registry Number 80141-08-8 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 2,3,4,8,9,10-hexamethoxy- (CA INDEX NAME)

. L8 ANSWER 2 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number

Accession Number 2008:1383566 CAPLUS <u>Full-text</u>
Document Number 149:555080

Title

The intramolecular Heck reaction

The InternaAuthor/Inventor
Link, J. T.
Patent Assignee/Corporate Source
Abbott Laboratories, Abbott Park, IL, USA

Organic Reactions (Hoboken, NJ, United States) (2002), 60, No pp. given CODEN: ORHNBA URL: http://www3.interscience.wiley.com/og:- bin/mrwhome/107610747/HOME Document Type
Journal; General Review; (online computer file)

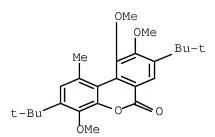
Language English

Abstract

A review of the article The intramol. Heck reaction. Hit Structure

CAS Registry Number 203984-69-4 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-bis(1,1-dimethylethyl)-4,9,10-trimethoxy-1-methyl- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L8 ANSWER 3 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number 2003:807792 CAPLUS <u>Full-text</u>
Document Number

140:391166

Title

Product class 4: benzopyranones and benzopyranthiones

Author/Inventor Williams, A. C.; Camp, N.

Patent Assignee/Corporate Source Germany

Science of Synthesis (2003), 14, 347-638 CODEN: SSCYJ9

Document Type
Journal; General Review
Language
English

Abstract

A review. Methods for preparing 2H-1-benzopyran-2-ones, 4H-1-benzopyran-4-ones, 1H-2-benzopyran-1-ones, 6H-dibenzo[b,d]pyran-6-ones, 9H-xanthenones and their corresponding thione analogs as well as 3H-2-benzopyran-3-ones are surveyed. Synthetic methods include ring closure, ring transformation, aromatization and substituent modification reactions.

Hit Structure

CAS Registry Number

685829-30-5 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 1,3-dihydroxy-8-methoxy- (CA INDEX NAME)

THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS) OS.CITING REF COUNT:

, L8 ANSWER 4 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2003:657090 CAPLUS <u>Ful-18xt</u>

Document Number 139:350571

Total Synthesis of (+)-Isoschizandrin Utilizing a Samarium(II) lodide-Promoted 8-Endo Ketyl-Olefin Cyclization

Author/Inventor Gray A.; George, Kelly M.; Monovich, Lauren G.
Molander, Gary A.; George, Kelly M.; Monovich, Lauren G.
Patent Assignee/Corporate Source
Roy and Diana Vagelos Laboratories, Department of Chemistry, University of Pennsylvania Philadelphia, Philadelphia, PA, 19104-6323, USA Source

Journal of Organic Chemistry (2003), 68(25), 9533-9540 CODEN: JOCEAH; ISSN: 0022-3263
Document Type
Journal

Language English

English

Abstract

The thirteen-step synthesis of (+)-isoschizandrin reported herein features a samarium(II) iodide-promoted 8-endo ketyl-olefin coupling to assemble the eight-membered ring present in the target concomitantly with the required functionality and stereochem. In constructing (+)-isoschizandrin as a single atropisomer, the synthesis utilizes a kinetic resolution of a seven-membered lactone using a CBS-oxazaborolidine.

CAS Registry Number 611233-67-1 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 1,2,3,8,9,10-hexamethoxy- (CA INDEX NAME)

THERE ARE 51 CAPLUS RECORDS THAT CITE THIS RECORD (54 CITINGS) OS.CITING REF COUNT:

, L8 ANSWER 5 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2003:331200 CAPLUS Full-text

Document Number

138:396164

Title

Repeated Oral Administration of High Doses of the Pomegranate Ellagitannin Punicalagin to Rats for 37 Days Is Not Toxic

Author/Inventor

Cerda, Begona; Ceron, Jose J.; Tomas-Barberan, Francisco A.; Espin, Juan Carlos

Patent Assignee/Corporate Source
Research Group on Quality Safety and Bioactivity of Plant Foods Department of Food Science and Technology, CEBAS-CSIC, Murcia, 30080, Spain Source

Journal of Agricultural and Food Chemistry (2003), 51(11), 3493-3501 CODEN: JAFCAU; ISSN: 0021-8561

Document Type Journal

Language English

The water-soluble ellagitanin punicalagin has been reported to be toxic to cattle. Taking into account that this antioxidant polyphenol is very abundant in pomegranate juice (≥2 g/L), the present study evaluated the possible toxic effect of punicalagin in Sprague-Dawley rats upon repeated oral administration of a 6% punicalagin-containing diet for 37 days. Punicalagin and related metabolities were identified by HPLC-DAD-MS-MS in plasma, liver, and kidney. Five punicalagin-related metabolities were detected in liver and kidney, i.e., two ellagic acid derivs., gallagic acid, 3.8-dihydroxy-6H-dibenzo[b_d]pyran-6-one glucuronide, and 3.8,10-trihydroxy-6H-dibenzo[b_d] pyran-6-one. Feedstuff intake, food utility index, and growth rate were lower in treated rats that you also without significant adverse effects, which could be due to the lower nutritional value of the punicalagin-enriched diet with respect to the lower food intake. No significant differences were found in freated rats in any blood parameter analyzed (including the antioxidant enrymes glutathinous peroxidase and superoxide dismutase) with the exception of urea and triglycerides, which remained at low values throughout the experiment. Although the reason for the decrease is unclear, it could be due to the lower nutritional value of the punicalagin-enriched diet with respect to the standard rat food. Histopathol, and, of liver and kidney corroborated the absence of toxicity. In principle, the results reported here, together with the large safety margin considered, indicate the lack of toxic effect of punicalagin in rats during the 37 day period investigated. However, taking into account the high punicalagin content of pomegranate-derived foodstufts, safety evaluation should be also carried out in humans with a lower dose and during a longer period of intake.

CAS Registry Number 1143-70-0 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-dihydroxy- (CA INDEX NAME)

CAS Registry Number 531512-26-2 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8,10-trihydroxy- (CA INDEX NAME)

CAS Registry Number 531512-27-3 CAPLUS

Chemical or Trade Name $\beta\text{-D-Glucopyranosiduronic acid,} \\ 8\text{-hydroxy-6-oxo-6H-dibenzo[b,d]pyran-3-yl} \qquad \text{(CA INDEX NAME)}$

OS.CITING REF COUNT:

THERE ARE 61 CAPLUS RECORDS THAT CITE THIS RECORD (62 CITINGS)

61

2003:287982 CAPLUS Full-text

Document Number 139:132795

Title

Evaluation of the bioavailability and metabolism in the rat of punicalagin, an antioxidant polyphenol from pomegranate juice

Author/Inventor

Cerda, Begona; Llorach, Rafael; Ceron, Jose J.; Espin, Juan Carlos; Tomas-Barberan, Francisco A. Patent Assignee/Corporate Source
Department of Food Science and Technology, CEBAS (CSIC), Murcia, 30080, Spain

Source

European Journal of Nutrition (2003), 42(1), 18-28 CODEN: EJNUFZ; ISSN: 1436-6207

Language English

the Punicalagin is an antioxidant ellagitannin of pomegranate juice responsible for its high antioxidant activity. Nothing is known about the bioavailability and metabolism of punicalagin vas studied in 10 rats fed standard diets with 0 or 6% punicalagin. Samples of urine and feces were taken every 2 days for 37 days and blood plasma every week. The metabolites were analyzed by HPLC-MS-MS. The daily intakes of punicalagin ranged 0.6-1.2 g and 3-6% of the ingested amount was excreted as identified metabolites in feces and urine. In feces, punicalagin was transformed to hydrolysis products and partly to 6H-dibenzo[b,d]pyran-6-one metabolites by the intestinal microflora. In blood plasma, punicalagin was detected at concess. apprx.30 g/mlt, and glucuronides of Me ether derivs. of ellagic acid were also detected. The 6H-dibenzo[b,d]pyran-6-one derivs. were also detected especially during the last few weeks of the experiment. In urine, the main metabolites were the 6H-dibenzo[b,d]pyran-6-one derivs., as aglycons or glucuronides. As only 3-6% of the ingested punicalagin amount was detected as such or as metabolites in urine and feces, most of this ellagitannin has to be converted to undetectable metabolites (i.e. CO2) or accumulated in non-analyzed tissues, but only traces of punicalagin metabolites were detected in the liver or kidney.

Hit Structure

CAS Registry Number 1143-70-0 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-dihydroxy- (CA INDEX NAME)

CAS Registry Number 531512-26-2 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8,10-trihydroxy- (CA INDEX NAME)

CAS Registry Number 531512-27-3 CAPLUS

Chemical or Trade Name $\beta\text{-D-Glucopyranosiduronic acid,} \\ 8\text{-hydroxy-6-oxo-GH-dibenzo[b,d]pyran-3-yl} \qquad \text{(CA INDEX NAME)}$

CAS Registry Number 566138-11-2 CAPLUS

Chemical or Trade Name

 $\beta\text{-D-Glucopyranosiduronic acid,} \\ 8-hydroxy-6-oxo-6H-dibenzo[b,d]pyran-3,10-diyl bis- (9CI) (CA INDEX NAME)$

OS.CITING REF COUNT: 69 THERE ARE 69 CAPLUS RECORDS THAT CITE THIS RECORD (69 CITINGS)

L8 ANSWER 7 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2003:207622 CAPLUS <u>Full-text</u>

Document Number 138:368716

Title

Synthesis and Evaluation of a Novel Nonsteroidal-Specific Endothelial Cell Proliferation Inhibitor

Author/Inventor
Schmidt, Jonathan M.; Tremblay, Gilles B.; Page, Martine; Mercure, Julie; Feher, Miklos; Dunn-Dufault, Robert; Peter, Markus G.; Redden, Peter R.

Patent Assignee/Corporate Source SignalGene Inc., Guelph, ON, N1G 4P7, Can.

Journal of Medicinal Chemistry (2003), 46(8), 1289-1292 CODEN: JMCMAR; ISSN: 0022-2623

Document Type Journal

Language English

The identification of agents with specific antiproliferative or cytostatic activity against endothelial cells has significant value for the treatment of pathologies associated with angiogenesis, including solid tumors. The dibenzo[b, d]pyran-6-ones I [R = H, R1 = OMe; R = OMe, R1 = OH] were prepared Preliminary in vitro activity data indicate that this scaffold is a promising lead for the development of specific inhibitors of endothelial cell proliferation.

Hit Structure

CAS Registry Number 448218-66-4 CAPLUS

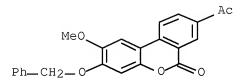
Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 8-acetyl-3-methoxy- (CA INDEX NAME)

CAS Registry Number 524713-48-2 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 8-acetyl-3-hydroxy-2-methoxy- (CA INDEX NAME)

CAS Registry Number 524713-47-1 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 8-acetyl-2-methoxy-3-(phenylmethoxy)- (CA INDEX NAME)



OS.CITING REF COUNT: 20 THERE ARE 20 CAPLUS RECORDS THAT CITE THIS RECORD (20 CITINGS)

L8 ANSWER 8 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2002:658078 CAPLUS <u>Fuil-text</u>

Title

Preparation of aminoalkoxyphenylbenzochromenes and -phenanthrenes as nonsteroidal estrogen receptor ligands

Author/Inventor
Schmidt, Jonathan Martin; Mercure, Julie; Lowell, Jeffry Lawrence; Kwiatkowski, Stefan; Pupek, Krzysztof; Zhu, Shuguang; Whelan, John; Lazarowych, Natalie

Patent Assignee/Corporate Source Nanodesign Inc., Can.

PCT Int. Appl., 70 pp. CODEN: PIXXD2

Document Type Patent

Language English

"	mornation					
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
	WO 2002066428	A2	20020829	WO 2002-CA228	20020221	
	WO 2002066428	АЗ	20021024			
	US 20020156077	A1	20021024	US 2001-934254	20010821	
	US 6599921	B2	20030729			
	AU 2002238314	A1	20020904	AU 2002-238314	20020221	

Abstract

Title compds. [1; R1 = pyrrolidinyl, piperidinyl, (di)methylpyrrolidinyl, morpholino, Me2N, Et2N, (Me2CH)2N, hexamethyleneimino; R2 = Pr, CH2CMe2H, CH:CHMe, Ac, CH(OH)Me, etc.; R3, R4 = H, Me; R5 = OH, CO2Me; n = 1-4; Z = C, O, S], were prepared Thus, 3-methoxys-8-(2-methyl-1,3-dioxolan-2-yl)be-fold-(4-(2-piperidin-1-ylethoxy)phenyl-6H-benzol(chromen-6-out in the latter in CH2Cl2 at 7-8" was treated with a mixture prepared from 1-[2-(4-tromphenoxy)ethyl]piperidine but of the latter in CH2Cl2 at 7-8" was treated with a mixture prepared from 1-[2-(4-tromphenoxy)ethyl]piperidine but of the latter in CH2Cl2 at 7-8" was treated with a mixture prepared from 1-[2-(4-tromphenoxy)ethyl]piperidine but of the latter in CH2Cl2 at 7-8" was treated with B7-B12Cl2 at 7-8" followed by surring overnight to give 32% (+)-1-[3-methoxy-6-[4-(2-piperidin-1-ylethoxy)phenyl]-6H-benzol(chromen-8-yl)ethanone. This was treated with B8's in CH2Cl2 at 7-8" followed by warming to 15" overnight to give (+)-1-[3-hydroxy-6-[4-(2-piperidin-1-ylethoxy)phenyl]-6H-benzol(chromen-8-yl)ethanone. This was treated with B8's in CH2Cl2 at 7-8" followed by warming to 15" overnight to give (+)-1-[3-hydroxy-6-[4-(2-piperidin-1-ylethoxy)phenyl]-6H-benzol(chromen-8-yl)ethanone. This was treated with B8's in CH2Cl2 at 7-8" followed by warming to 15" overnight to give (+)-1-[3-hydroxy-6-[4-(2-piperidin-1-ylethoxy)phenyl]-6H-benzol(chromen-8-yl)ethanone. This was treated with B8's in CH2Cl2 at 7-8" followed by warming to 15" overnight to give (+)-1-[3-hydroxy-6-[4-(2-piperidin-1-ylethoxy)phenyl]-6H-benzol(chromen-8-yl)ethanone. This was treated with B8's in CH2Cl2 at 7-8" followed by warming to 15" overnight to give (+)-1-[3-hydroxy-6-[4-(2-piperidin-1-ylethoxy)phenyl]-6H-benzol(chromen-8-yl)ethanone. This was treated with B8's in CH2Cl2 at 7-8" followed by warming to 15" overnight to give (+)-1-[3-hydroxy-6-[4-(2-piperidin-1-ylethoxy)phenyl]-6H-benzol(chromen-8-ylethoxy)phenyl]-6H-benzol(chromen-8-ylethoxy)phenyl]-6H-benzol(chromen-8-ylethoxy)phenyl-

CAS Registry Number 452307-41-4 CAPLUS

Chemical or Trade Name Ethanone, 1-[3-hydroxy-6-[4-[2-(1-piperidiny1)ethoxy]pheny1]-6H-dibenze[b,djpyran-8-yl]-, (+)- (CA INDEX NAME)

CAS Registry Number 448218-66-4 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 8-acetyl-3-methoxy- (CA INDEX NAME)

CAS Registry Number 452307-50-5 CAPLUS

Chemical or Trade Name Ethanone, 1-[3-methoxy-6-[4-[2-(1-piperidiny1)ethoxy]pheny1]-6H-dibenzo[b,d]pyran-8-y1]-, (+)- (CA INDEX NAME)

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

, L8 ANSWER 9 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2020;2638294 CAPLUS Full-text Document Number

137:169420

Title

Preparation of benzochromenones as antiproliferative agents

Author/Inventor

Schmidt, Johnathan Martin; Redden, Peter; Mercure, Julie; Zhu, Shuguang; Whelan, John; Lazarowych, Natalie

Patent Assignee/Corporate Source Can.

Source

U.S. Pat. Appl. Publ., 17 pp. CODEN: USXXCO

Document Type Patent

Language English

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20020115711	A1	20020822	US 2001-934086	20010821
US 6632835	B2	20031014		
CA 2438713	A1	20020829	CA 2002-2438713	20020221
WO 2002066467	A1	20020829	WO 2002-CA227	20020221
AU 2002234466	A1	20020904	AU 2002-234466	20020221
AU 2002234466	B2	20060216		
EP 1373260	A1	20040102	EP 2002-701135	20020221
EP 1373260	B1	20080528		

20080615

20081201

ТЗ

Title compds. (I; R1 = H, OH, alkoxy; R2 = alkanoyl, 2-alkyl-1,3-dioxolan-2-yl, etc.; R4 = H, OH, OMe, OEt, OCF3) were prepared Thus, Me 5-acetyl-2-trifluoromethylsultonyloxybenzoate was condensed with 2,4-{MeO} 2C6H3B(OH)2 and the saponified product cyclized to give, after ketalization, I [R1 = MeO, R2 = 8-{2-Me-1,3-dioxolan-2-yl), R4 = H]. Data for biol. activity of I were given. Hit Structure

CAS Registry Number 448218-57-3 CAPLUS

AT 396989

ES 2307721

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 8-acetyl-2,3-dimethoxy- (CA INDEX NAME)

AT 2002-701135

ES 2002-701135

20020221

20020221

CAS Registry Number 448218-66-4 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 8-acetyl-3-methoxy- (CA INDEX NAME)

THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS) OS.CITING REF COUNT: 1

L8 ANSWER 10 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number 2002:558442 CAPLUS <u>Full-text</u>

Document Number 137:247470

On the Verge of Axial Chirality: Atroposelective Synthesis of the AB-Biaryl Fragment of Vancomycin

Author/Inventor

Autriorinventor

Bringmann, Gerhard; Menche, Dirk; Muhlbacher, Jorg; Reichert, Matthias; Saito, Nozomi; Pfeiffer, Steven S.; Lipshutz, Bruce H.

Patent Assignee/Corporate Source
Institut fur Organische Chemie, Universit

Source

Organic Letters (2002), 4(17), 2833-2836 CODEN: ORLEF7; ISSN: 1523-7060 Document Type

Language English

Abstract

Using the "lactone concept", differently substituted AB-biaryl tragments (I; R = Me, t-Bu) of vancomycin have been synthesized atroposelectively. Their otherwise configurational instability was remedied by inclusion of two chlorine atoms in the B ring to give (II). Starting from a still configurationally unstable lactone-bridged precursor, we obtained this biaryl with high atroposelectivity (dr 94:6) by ring cleavage with dynamic kinetic diastereomeric resolution

Hit Structure

CAS Registry Number 461031-87-8 CAPLUS Chemical or Trade Name 3-0xazolidineoarboxylic acid, 4-(1,3-dichloro-8,10-dimethoxy-6-oxo-6H-dibenzo[b,d]pyran-2-yl)-2,2-dimethyl-, 1,1-dimethylethyl ester, (4R)- (CA INDEX NAME)

OS.CITING REF COUNT: 20 THERE ARE 20 CAPLUS RECORDS THAT CITE THIS RECORD (20 CITINGS)

L8 ANSWER 11 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number

2002:104048 CAPLUS Fuli-text

Document Number 136:352624

Title

Antioxidative effects of dibenzo- α -pyrones in fruits of Trapa natans on lipid peroxidation

Author/Inventor Shirataki, Yoshiaki; Toda, Shizuo

Patent Assignee/Corporate Source
Faculty of Pharmaceutical Sciences, Josai University, 1-1 Keyakidai Sakado, Saitama, 350-0295, Japan

Natural Medicines (Tokyo, Japan) (2001), 55(5), 247-250 CODEN: NMEDEO; ISSN: 1340-3443

Document Type Journal

Language English

Abstract

Three dibenzo-a-pyrones, 3-hydroxy-6H-dibenzo[b,d]pyran-6-one (I), 3,8-dihydroxy-6H-dibenzo[b,d]pyran-6-one (II) isolated from the fruits of Trapa natans, inhibited lipid peroxidn. which was induced by interaction of Hb and hydrogen peroxide in vitro. While II and III have antioxidative effects, inhibitory effect of II was stronger than those of II, Me gallate and gallic acid as related compds. Antioxidative effect of I was weak. The results demonstrated that the antioxidative properties of dibenzo-a-pyrones which have a hydroxy group at the 3-position, are derived from hydroxy groups at the other positions. Hit Structure

CAS Registry Number 1143-70-0 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-dihydroxy- (CA INDEX NAME)

OS.CITING REF COUNT: THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L8 ANSWER 12 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2001:833866 CAPLUS Full-text

Document Number

135:371633 Title

Preparation of 6H-dibenzo[b,d]pyran derivatives as glucocorticoid receptor antagonists for treatment of diabetes

Author/Inventor

Kym, Philip R.; Lane, Benjamin C.; Pratt, John K.; Von Geldern, Tom; Winn, Martin; Brenneman, Jehrod; Patel, Jyoti R.; Arendsen, David L.; Akritopoulou-zanze, Irini; Ashworth, Kimba L.; Hartandi, Kresna Patent Assignee/Corporate Source Kym, Philip, USA

Source U.S. Pat. Appl. Publ., 94 pp., Cont.-in-part of U.S. Ser. No. 654,322. CODEN: USXXCO

Language English

Patent Infor

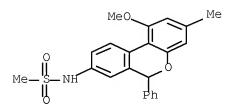
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20010041802	A1	20011115	US 2001-795998	20010228
US 6593480	B2	20030715		
US 6436986	В1	20020820	US 2000-635349	20000809
US 6329534	В1	20011211	US 2000-654322	20000901
WO 2002070507	A2	20020912	WO 2002-US4541	20020116
WO 2002070507	АЗ	20021121	-	

Abstract
The title compds. [I; R1 = alkanoyl, CN, halo, etc.; R2 = H, R1; R3, R4, R7-R9 = H, R1; L = a bond, alkylene; R5 = alkanoyl, alkoxy, aryl, etc.; R6 = H, alkyl; LR5 and R6 together = A(CH2)d (wherein d = 1-4; A = CH2, O, S, etc.) to form a spiro ring; R10, R11 = H, alkyl, aryl, etc.], useful for treating type II diabetes, obesity, hyperglycemia, inadequate glucose clearance, hyperinsulinemia, hypertriglyceridemia, and high-circulating glucocorticoid levels, were prepared E.g., a multi-step synthesis of I [R1 = OMe; R2-R4 = H; L = a bond; R5 = 3-F3CC6H4; R6 = H; R7 = Me; R8, R9 = H; R10 = SO2Me; R11 = H] which showed 82.1% GR binding inhibition at 1.7 µM, was given.

Hit Structure

CAS Registry Number 373622-02-7 CAPLUS

Chemical or Trade Name
Methanesulfonamide, N-(1-methoxy-3-methyl-6-phenyl-6H-dibenzo[b,d]pyran-8-yl)- (CA INDEX NAME)



CAS Registry Number 373626-36-9 CAPLUS

Chemical or Trade Name Methaneaulfonamide, N-[3-bromo-1-methoxy-6-(2-propen-1-y1)-6H-dibenzo[b,d]pyran-8-y1]- (CA INDEX NAME)

CAS Registry Number 373626-37-0 CAPLUS

Chemical or Trade Name
Methanesulfonamide, N-(3-bromo-1-methoxy-6-phenyl-6H-dibenzo[b,d]pyran-8-yl)- (CA INDEX NAME)

CAS Registry Number 373626-38-1 CAPLUS

Chemical or Trade Name Methaneaulfonamide, N=[3-bromo-6-(3-chlorophenyl)-1-methoxy-6H-dibenze[b,d]pyran-8-yl]- (CA INDEX NAME)

CAS Registry Number 373626-39-2 CAPLUS

Chemical or Trade Name
Methanesulfonamide, N-[3-bromo-6-(3-fluoropheny1)-1-methoxy-6H-dibenzo[b,d]pyran-8-y1]- (CA INDEX NAME)

CAS Registry Number 373626-40-5 CAPLUS

Chemical or Trade Name
Methanesulfonamide, N-[3-bromo-1-methoxy-6-(3-methoxyphenyl)-6H-dibenzo[b,d]pyran-8-yl]- (CA INDEX NAME)

CAS Registry Number 373626-41-6 CAPLUS

Chemical or Trade Name Methanesulfonamide, N-[3-bromo-6-(3,4-dimethoxyphenyl)-1-methoxy-6H-dibenze[b,d]pyran-6-y1]- (CA INDEX NAME)

CAS Registry Number 373626-42-7 CAPLUS

Chemical or Trade Name Methanesulfonamide, N=[3-bromo-6-(5-bromo-2-thienyl)-1-methoxy-6H-dibenzo[b,d]pyran-8-yl]- (CA INDEX NAME)

CAS Registry Number 373626-43-8 CAPLUS

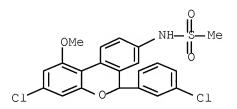
Chemical or Trade Name Methanesulfonamide, N-[3-chloro-1-methoxy-6-(2-propen-1-y1)-6H-dibenze[b,4]pyran-8-y1]- (CA INDEX NAME)

CAS Registry Number 373626-44-9 CAPLUS

Chemical or Trade Name
Methanesulfonamide, N-(3-chloro-1-methoxy-6-phenyl-6H-dibenzo[b,d]pyran-8-yl)- (CA INDEX NAME)

CAS Registry Number 373626-45-0 CAPLUS

Chemical or Trade Name Methanesulfonamide, N=(3-chloro-6-(3-chlorophenyl)-1-methoxy-6H-dibenze[b,d]pyran-8-yl]- (CA INDEX NAME)



CAS Registry Number 373626-46-1 CAPLUS

Chemical or Trade Name Methanesulfonamide, N=[3-chloro-6-(3-fluorophenyl)-1-methoxy-6H-dibenzo[b,d]pyran-8-yl]- (CA INDEX NAME)

CAS Registry Number 373626-47-2 CAPLUS

Chemical or Trade Name Methanesulfonamide, N-[3-chloro-1-methoxy-6-(3-methoxyphenyl)-6Hdibenze[b,d]pyran-6-y1]- (CA INDEX NAME)

CAS Registry Number 373626-48-3 CAPLUS

Chemical or Trade Name Methanesulfonamide, N=[3-chloro-6-(3,4-dimethoxyphenyl)-1-methoxy-6H-dibenzo[b,d]pyran-8-yl]- (CA INDEX NAME)

CAS Registry Number 373626-49-4 CAPLUS

Chemical or Trade Name Methanesulfonamide, N=[6-(5-bromo-2-thienyl)-3-chloro-1-methoxy-6H-dibenzo[b,d]pyran-8-yl]- (CA INDEX NAME)

CAS Registry Number 373626-50-7 CAPLUS

Chemical or Trade Name Methanesulfonamide, N-[3-fluoro-1-methoxy-6-(2-propen-1-y1)-6H-dibenzo[b,d]pyran-8-y1]- (CA INDEX NAME)

CAS Registry Number 373626-51-8 CAPLUS

Chemical or Trade Name
Methanesulfonamide, N-(3-fluoro-1-methoxy-6-phenyl-6H-dibenzo[b,d]pyran-8-yl)- (CA INDEX NAME)

CAS Registry Number 373626-52-9 CAPLUS

Chemical or Trade Name
Methanesulfonamide, N-[6-(3-chlorophenyl)-3-fluoro-1-methoxy-6H-dibenzo[b,d]pyran-8-yl]- (CA INDEX NAME)

CAS Registry Number 373626-53-0 CAPLUS

Chemical or Trade Name Methanesulfonamide, N=[3-fluoro-6-(3-fluorophenyl)-1-methoxy-6H-dibenze[b,d]pyran-8-yl]- (CA INDEX NAME)

CAS Registry Number 373626-54-1 CAPLUS

Chemical or Trade Name Methanesulfonamide, N=[3-fluoro-1-methoxy-6-(3-methoxyphenyl)-6H-dibenzo[b,d]pyran-8-yl]- (CA INDEX NAME)

CAS Registry Number 373626-55-2 CAPLUS

Chemical or Trade Name Methanesulfonamide, N-[6-(3,4-dimethoxyphenyl)-3-fluoro-1-methoxy-6H-dibenze[b,4]pyran-8-y1]- (CA INDEX NAME)

CAS Registry Number 373626-56-3 CAPLUS

Chemical or Trade Name Methanesulfonamide, N=[6-(5-bromo-2-thieny1)-3-fluoro-1-methoxy-6H-dibenzo[b,d]pyran-8-y1]- (CA INDEX NAME)

CAS Registry Number 373626-57-4 CAPLUS

Chemical or Trade Name Methanesulfonamide, N-[1-methoxy-3-methyl-6-(2-propen-1-yl)-6H-dibenzo[b,d]pyran-8-yl]- (CA INDEX NAME)

CAS Registry Number 373626-58-5 CAPLUS

Chemical or Trade Name Methanesulfonamide, N-(6-ethynyl-1-methoxy-3-methyl-6H-dibenzo[b,d]pyran-8-yl)- (CA IMDEX NAME)

CAS Registry Number 373626-59-6 CAPLUS

Chemical or Trade Name Methanesulfonamide, N-[6-(3-fluorophenyl)-1-methoxy-3-methyl-6H-dibenze[b,d]pyran-8-yl]- (CA INDEX NAME)

CAS Registry Number 373626-60-9 CAPLUS

Chemical or Trade Name
Methanesulfonamide, N-[1-methoxy-6-(3-methoxyphenyl)-3-methyl-6H-dibenzo[b,d]pyran-8-yl]- (CA INDEX NAME)

CAS Registry Number 373626-61-0 CAPLUS

Chemical or Trade Name Methanesulfonamide, N-[6-(3,4-dimethoxyphenyl)-1-methoxy-3-methyl-6H-dibenze[b,4]pyran-8-y1]- (CA INDEX NAME)

CAS Registry Number 373626-62-1 CAPLUS

Chemical or Trade Name Methanesulfonamide, N-[6-(5-bromo-2-thieny1)-1-methoxy-3-methy1-6H-dibenzo[b,d]pyran-8-y1]- (CA INDEX NAME)

CAS Registry Number 373626-63-2 CAPLUS

Chemical or Trade Name Methanesulfonamide, N-[3-bromo-1-(difluoromethoxy)-6-(2-propen-1-y1)-6H-dibenze[b,d]pyran-6-y1]- (CA INDEX NAME)

CAS Registry Number 373626-64-3 CAPLUS

Chemical or Trade Name
Methanesulfonamide, N-[3-bromo-1-(difluoromethoxy)-6-phenyl-6H-dibenzo[b,d]pyran-8-yl]- (CA INDEX NAME)

CAS Registry Number 373626-65-4 CAPLUS

Chemical or Trade Name
Methanesulfonamide, N-[3-bromo-6-(3-chlorophenyl)-1-(difluoromethoxy)-6Hdibenzo[6,4]pyran-8-y1]- (CA INDEX NAME)

CAS Registry Number 373626-66-5 CAPLUS

Chemical or Trade Name Methanesulfonamide, N-[3-bromo-1-(difluoromethoxy)-6-(3-fluorophenyl)-6H-dibenzo[b,d]pyran-8-yl]- (CA INDEX NAME)

CAS Registry Number 373626-67-6 CAPLUS

Chemical or Trade Name
Methanesulfonamide, N=[3-bromo-1-(difluoromethoxy)-6-(3-methoxyphenyl)-6Hdibenzo[b,d]pyran-8-y1]- (CA INDEX NAME)

CAS Registry Number 373626-68-7 CAPLUS

Chemical or Trade Name Methanesulfonamide, N=[3-bromo-1-(difluoromethoxy)-6-(3,4-dimethoxyphenyl)-6H-dibenzo[b,d]pyran-8-yl]- (CA INDEX NAME)

CAS Registry Number 373626-69-8 CAPLUS

Chemical or Trade Name Methanesulfonamide, N-[3-bromo-6-(5-bromo-2-thienyl)-1-(difluoromethoxy)-6H-dibenzo[b,d]pyran-8-yl]- (CA INDEX NAME)

CAS Registry Number 373626-70-1 CAPLUS

Chemical or Trade Name Methanesulfonamide, N=[3-chloro-1-(difluoromethoxy)-6-(2-propen-1-y1)-6H-dibenzo[b,d]pyran-8-y1]- (CA INDEX NAME)

CAS Registry Number 373626-71-2 CAPLUS

Chemical or Trade Name Methanesulfonamide, N-[3-chloro-1-(difluoromethoxy)-6-phenyl-6H-dibenze[b,d]pyran-8-yl]- (CA INDEX NAME)

CAS Registry Number 373626-72-3 CAPLUS

Chemical or Trade Name
Methanesulfonamide, N-[3-chloro-6-(3-chlorophenyl)-1-(difluoromethoxy)-6H-dibenzo[b,d]pyran-8-yl]- (CA INDEX NAME)

CAS Registry Number 373626-73-4 CAPLUS

Chemical or Trade Name Methanesulfonamide, N=[3-chloro-1-(difluoromethoxy)-6-(3-fluorophenyl)-6H-dibenzo[b,d]pyran-8-y1]- (CA INDEX NAME)

CAS Registry Number 373626-74-5 CAPLUS

Chemical or Trade Name Methanesulfonamide, N=[3-chloro-1-(difluoromethoxy)-6-(3-methoxyphenyl)-6H-dibenzo[b,d]pyran-8-yl]- (CA INDEX NAME)

CAS Registry Number 373626-75-6 CAPLUS

Chemical or Trade Name
Methanesulfonamide, N=[3-chloro-1-(difluoromethoxy)-6-(3,4-dimethoxyphenyl)-6H-dibenzo[b,d]pyran-8-y1]- (CA INDEX NAME)

CAS Registry Number 373626-76-7 CAPLUS

Chemical or Trade Name
Methanesulfonamide, N-[6-(5-bromo-2-thienyl)-3-chloro-1-(difluoromethoxy)-6H-dibenzo[b,d]pyran-8-yl]- (CA INDEX NAME)

CAS Registry Number 373626-77-8 CAPLUS

Chemical or Trade Name
Methanesulfonamide, N=[1-(difluoromethoxy)-3-fluoro-6-(2-propen-1-yl)-6H-dibenzo[b,d]pyran-8-yl]- (CA INDEX NAME)

$$F_2CH - O$$
 $CH_2-CH = CH_2$

CAS Registry Number 373626-78-9 CAPLUS

Chemical or Trade Name Methanesulfonamide, N=[1-(difluoromethoxy)-3-fluoro-6-phenyl-6H-dibenzo[b,d]pyran-8-yl]- (CA INDEX NAME)

CAS Registry Number 373626-79-0 CAPLUS

Chemical or Trade Name
Methanesulfonamide, N=[6-(3-chloropheny1)-1-(difluoromethoxy)-3-fluoro-6Hdibenzo[b,d]pyran-8-y1]- (CA INDEX NAME)

CAS Registry Number 373626-80-3 CAPLUS

Chemical or Trade Name
Methanesulfonamide, N-[1-(difluoromethoxy)-3-fluoro-6-(3-fluorophenyl)-6H-dibenzo[b,d]pyran-8-yl]- (CA INDEX NAME)

CAS Registry Number 373626-81-4 CAPLUS

Chemical or Trade Name Methanesulfonamide, N-[1-(difluoromethoxy)-3-fluoro-6-(3-methoxyphenyl)-6H-dibenze[b,d]pyran-6-y1]- (CA INDEX NAME)

CAS Registry Number 373626-82-5 CAPLUS

Chemical or Trade Name Methanesulfonamide, N-[1-(difluoromethoxy)-6-(3,4-dimethoxypheny1)-3-fluoro-6H-dibenzo[b,d]pyran-8-y1]- (CA INDEX NAME)

CAS Registry Number 373626-83-6 CAPLUS

Chemical or Trade Name Methanesulfonamide, N=[6-(5-bromo-2-thieny1)-1-(difluoromethoxy)-3-fluoro-6H-dibenzo[b,d]pyran-8-y1]- (CA INDEX NAME)

CAS Registry Number 373626-84-7 CAPLUS

Chemical or Trade Name Methanesulfonamide, N=[1-(difluoromethoxy)-3-methyl-6-(2-propen-1-yl)-6H-dibenzo[b,d]pyran-8-yl]- (CA INDEX NAME)

CAS Registry Number 373626-85-8 CAPLUS

Chemical or Trade Name
Methanesulfonamide, N-[1-(difluoromethoxy)-3-methyl-6-phenyl-6H-dibenzo[b,d]pyran-8-yl]- (CA INDEX NAME)

CAS Registry Number 373626-86-9 CAPLUS

Chemical or Trade Name Methanesulfonamide, N-[6-(3-chlorophenyl)-1-(difluoromethoxy)-3-methyl-6H-dibenzo[b,d]pyran-8-yl]- (CA INDEX NAME)

CAS Registry Number 373626-87-0 CAPLUS

Chemical or Trade Name Methanesulfonamide, N=[1-(difluoromethoxy)-6-(3-fluorophenyl)-3-methyl-6H-dibenze[b,d]pyran-8-yl]- (CA INDEX NAME)

CAS Registry Number 373626-88-1 CAPLUS

Chemical or Trade Name Methanesulfonamide, N=[1-(difluoromethoxy)-6-(3-methoxyphenyl)-3-methyl-6H-dibenzo[b,d]pyran-8-yl]- (CA INDEX NAME)

CAS Registry Number 373626-89-2 CAPLUS

Chemical or Trade Name Methanesulfonamide, N=[1-(difluoromethoxy)-6-(3,4-dimethoxypheny1)-3-methy1-6H-dibenzo[b,d]pyran-8-y1]- (CA INDEX NAME)

CAS Registry Number 373626-90-5 CAPLUS

Chemical or Trade Name Methanesulfonamide, N=(6-(5-bromo-2-thieny1)-1-(difluoromethoxy)-3-methyl-6H-dibenzo[b,d]pyran-8-y1]- (CA INDEX NAME)

CAS Registry Number 373626-91-6 CAPLUS

Chemical or Trade Name Methanesulfonamide, N=[6-(3-chlorophenyl)-1-methoxy-3-methyl-6H-dibenzo[b,d]pyran-8-yl]- (CA INDEX NAME)

OS.CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)

```
, L8 ANSWER 13 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2001;371552 CAPLUS <u>Full-text</u>
Document Number
134:357599
Title
         Solutions containing polyphenols for pharyngeal mucosa
Author/Inventor
         Ohashi, Takafumi; Sumida, Kenji
Patent Assignee/Corporate Source
Taisho Pharmaceutical Co., Ltd., Japan
Source
         Jpn. Kokai Tokkyo Koho, 4 pp. CODEN: JKXXAF
Document Type
Patent
Language
          Japanese
Patent Information
```

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001139465	A	20010522	JP 1999-320789	19991111

This invention relates to a solution containing polyphenols, ethanol, and concentrated glycerin in a buffer to relieve the discomfort in pharyngeal mucosa. The polyphenols in the solution are stable and their unpleasant taste is well masked. A solution was formulated containing tannic acid 26, iodine 10, Kl 20, concentrated glycerin 1032.9, peppermint oil 0.4, ethanol 255.7, and 0.01 N HCl 655.0 g. Hit Structure

L8 ANSWER 14 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2001:72360 CAPLUS Full-text

Document Number

134:139302 Title

Dibenzopyran-6-one derivatives, their liquid crystal compositions, and liquid crystal devices

Author/Inventor Shudo, Tatsuji; Inagaki, Junichi; Inoue, Hiromichi; Okabe, Eiji; Saito, Hideo Patent Assignee/Corporate Source Chisso Corp., Japan

Source

Jpn. Kokai Tokkyo Koho, 52 pp. CODEN: JKXXAF Document Type Patent

Language Japanese

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001026587	A	20010130	JP 1999-197892	19990712
JP 4449105	B2	20100414		

Abstract

Dibenzopyran-6-one derivs. I (R1, R2 = C2-16 linear or branched alkyl with optional substitution of ≥1 methylene(s) with O, S, CH:CH, C.tpibond.C, CF2, CHF, but free of O-O bond, O-S bond, or OMe; X, Y = O, CO; X ≠ Y; Z = single bond, OCH2, CH2O, SCH2, CH2O, SCH2, C.tpibond.C, CH2CH, C.top. CH2CH, CO; OCO; P = single bond, (halo- and/or cyano-substituted) 1,4-phenylene, 1,4-cyclohexylene with its 1 or 2 methylene group(s) substituted with O or S, pyridine-2,5-diyl, pyridine-2,5-diyl, pyrazine-2,5-diyl, pyrazine-2,5-diyl

Hit Structure

```
CAS Registry Number
321907-81-7 CAPLUS
Chemical or Trade Name
Cyclohexanecarboxylic acid, 4-butyl-, 4-ethylphenyl ester, trans-, mixt.
with 3,8-bis(nonyloxy)-6H-dibenzo[b,d]pyran-6-one, trans-4-butylphenyl
4-propylcyclohexanecarboxylate, trans-4-ethylphenyl
4-pentylcyclohexanecarboxylate, trans-4-ethylphenyl
4-propylcyclohexanecarboxylate and trans-4-methylphenyl
4-pentylcyclohexanecarboxylate (9CI) (CA INDEX NAME)
CRN 321907-75-9
CMF C31 H44 O4
```

CM 2

CRN 94041-27-7 CMF C19 H28 O2

CM 3

CRN 94041-26-6 CMF C20 H30 O2

CM (

CRN 94041-25-5 CMF C18 H26 O2

CM 5

CRN 67589-70-2 CMF C20 H30 O2

CM 6

CRN 67589-69-9 CMF C19 H28 O2

CAS Registry Number 321907-82-8 CAPLUS

Chemical or Trade Name
6H-Dibenzo[b,d]pyran-6-one, 3,8-bis(nonyloxy)-, mixt. with
2-[4-(decyloxy)phenyl]-5-octylpyrimidine,
2-(4'-heptyl[1,1'-biphenyl]-4-yl)-5-octylpyrimidine,
2-[4-(nexyloxy)phenyl]-5-octylpyrimidine,
2-[4-(nonyloxy)phenyl]-5-octylpyrimidine,
5-octyl-2-[4-(octyloxy)phenyl]pyrimidine and
5-octyl-2-[4-(octyloxy)phenyl]pyrimidine (9CI) (CA INDEX NAME)

CM
1

CRN 321907-75-9 CMF C31 H44 O4

CM 2

CRN 118266-63-0 CMF C29 H38 N2

CM 3

CRN 117433-12-2 CMF C31 H42 N2

CM 4

CRN 57202-52-5 CMF C28 H44 N2 O

CM 5

CRN 57202-51-4 CMF C27 H42 N2 O

CM 6

CRN 57202-50-3 CMF C26 H40 N2 O

CM 7

CRN 57202-48-9 CMF C24 H36 N2 O

CAS Registry Number 321907-75-9 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-bis(nonyloxy)- (CA INDEX NAME)

CAS Registry Number 321907-76-0 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3-heptyl-8-pentyl- (CA INDEX NAME)

L8 ANSWER 15 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2000:733014 CAPLUS <u>Full-text</u>
Document Number 133:301107

Title

Isolation of xanthine oxidase inhibitors from Lagerstroemia

Author/Inventor
Unno, Tomononi; Sakane, Iwao; Tsunoda, Takami

Patent Assignee/Corporate Source Itoen K. K., Japan

Source

Jpn. Kokai Tokkyo Koho, 7 pp. CODEN: JKXXAF Document Type Patent

Language

Japanese Patent Information

 morniation						
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
JP 2000290188	A	20001017	JP 1999-98011	19990405		
JP 3574001	B2	20041006				
US 20020051825	A1	20020502	US 2001-13351	20011213		
US 6589573	B2	20030708				
JP 2004123761	А	20040422	JP 2004-19819	20040128		

t
This present invention relates to a method for extracting xanthine oxidase inhibitors from Lagerstroemia. The method includes (1) extracting L. speciosa using water, hot water, and/or organic solvents, (2) adsorbing the exts.
on styrene-vinylbenzene type synthetic resins, (3) eluting the adsorbed components using organic solvents, such as CHCl3, hexane, EtOAc, and butanol, and (4) isolating ellagic acid and derivs. thereof by HPLC. Hit Structure

CAS Registry Number 91485-02-8 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,4,8,9,10-pentahydroxy- (CA INDEX NAME)

THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS) OS.CITING REF COUNT:

L8 ANSWER 16 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2000:657653 CAPLUS <u>Full-text</u>

Document Number

134:53885

Dibenzo-α-pyrons in fruits of Trapa natans

Author/Inventor Shirataki, Yoshiaki; Yoshida, Sanae; Toda, Shizuo

Patent Assignee/Corporate Source
Fac. Pharmaceutical Sci., Josai Univ., Sakado, 350-0295, Japan

Natural Medicines (Tokyo) (2000), 54(3), 160 CODEN: NMEDEO; ISSN: 1340-3443 Document Type Journal

Source

Language English

Abstract

Three dibenzo- α -pyrons were isolated from the fruits of Trapa natans in addition to Me gallate and β -sitosterol. Hit Structure

CAS Registry Number 1143-70-0 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-dihydroxy- (CA INDEX NAME)

OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L8 ANSWER 17 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number 2000:621158 CAPLUS <u>Full-text</u>

Document Number 133:350356

Title

Nondynamic and Dynamic Kinetic Resolution of Lactones with Stereogenic Centers and Axes: Stereoselective Total Synthesis of Herbertenediol and Mastigophorenes A and B Author/Inventor

Bringmann, Gerhard; Pabst, Thomas; Henschel, Petra; Kraus, Juergen; Peters, Karl; Peters, Eva-Maria; Rycroft, David S.; Connolly, Joseph D. Patent Assignee/Corporate Source Institut fuer Organische Chemie, Universitaet Wuerzburg, Wuerzburg, D-97074, Germany

Source

Journal of the American Chemical Society (2000), 122(38), 9127-9133 CODEN: JACSAT; ISSN: 0002-7863

Document Type Journal

Language

English

the stereoselective total synthesis of the sesquiterpene herbertenediol and of its naturally occurring dimers, mastigophorenes A [(P)-I] and B [(M)-isomer], is described. Following the "lactone concept", the configuration at the biaryl axis was atropo-divergently induced to be P or, optionally, M, by stereocontrolled reductive ring cleavage (diastereometric ratio up to 97:3) of the configurationally unstable joint biaryl lactone precursor II using the oxazaborolidine-borane system, through dynamic kinetic resolution Mechanistic considerations of the atone coupling suggested interference by a methoxy group next to the hadgeen substituent and led to an improvement of the coupling yield from 39 to 87% to give the lactone III. As a new, likewise highly efficient variant of the lactone method, we report for the first time the-now nondynamic-kinetic resolution of a structurally related, but certor-brial "aligntatic-aromatic" lactone, (CR,R-IV in gived and with excellent stereochem, purity (enantiomeric excess > 99.9%; enrichment of the starting material). The new synthesis of natural herbertenediol confirms its absolute stereostructure as well as that of its dimers, mastigophorenes A and B.

Hit Structure

CAS Registry Number 304859-81-2 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-1-carboxylic acid, 3,8-bie(1,1-dimethylethyl)-4,9,10-trimethoxy-, methyl ester (CA INDEX NAME)

THERE ARE 54 CAPLUS RECORDS THAT CITE THIS RECORD (56 CITINGS) OS.CITING REF COUNT:

L8 ANSWER 18 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2000:506105 CAPLUS Full-text

Document Number

133:120242 Title

Preparation of 1,2-dihydroquinolines

Author/Inventor

Bender, Reinhold H. W.; Edwards, James P.; Jones, Todd K.

Patent Assignee/Corporate Source
American Home Products, USA; Ligand Pharmaceuticals Inc. Source

U.S., 10 pp. CODEN: USXXAM

Document Type Patent

Language English

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6093825	A	20000725	US 1998-86004	19980527

The title method comprises preparation of quinolines I [R1R2 = (un)substituted CH:CHCH:CH or atoms to complete a polycyclic (hetero)aromatic ring system; R3,R4 = H, F, alkyl, alkoxy, etc.; R3R4 = alk(en)ylene] by treating (un)substituted PhNH2 etc. with a sitylating agent followed by cyclocondensation with R3CH2COCH2R4 in the presence of a catalyst. Thus, 2-amino-6-fluoro-3,4-benzocoumarin was treated with MeC(:NSiMe3)OSiMe3 and the product heated with acetone and I to give 88% 9-fluoro-1,2-dihydro-2,2,4-trimethyl-5-isocoumarino[3,4-f]quinoline. The process also succeeds as a 1-pot reaction. Hit Structure

CAS Registry Number 56825-81-1 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 8-amino-3-chloro- (CA INDEX NAME)

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, L8 ANSWER 19 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2000:443941 CAPLUS <u>Full-lext</u> Document Number
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133:51438 Title

 $Crystal\ structure\ of\ 3,8-di-tert-butyl-4,9,10-trimethoxy-1-\ methyldibenzo[b,d]pyran-6-thione,\ C6H(OCH3)2[C(CH3)3]CSO(C6H)(CH3)(OCH3)[C(CH3)3]CO(C6H)(CH3)(OCH3)[C(CH3)3]CO(C6H)(CH3)(OCH3)[C(CH3)3]CO(C6H)(CH3)(OCH3)[C(CH3)3]CO(C6H)(CH3)(OCH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6H)(CH3)[C(CH3)3]CO(C6$

Author/Inventor

Peters, K.; Peters, E.-M.; Pabst, T.; Bringmann, G.

Patent Assignee/Corporate Source
Max-Planck-Institut fur Festkorperforschung, Stuttgart, D-70506, Germany Source

Zeitschrift fuer Kristallographie - New Crystal Structures (2000), 215(3), 399-400 CODEN: ZKNSFT; ISSN: 1433-7266

Document Type Journal Language English

Abstract

The title compound is monoclinic, space group P21/c, a 13.704(1), b 10.530(1), c 16.248(1) Å, β 92.37(1)^c, Z = 4, Rgt(F) = 0.062, wR(F) = 0.058, T = 293 K. Atomic coordinates are given. Hit Structure

CAS Registry Number 275384-71-9 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-thione, 3,8-bis(1,1-dimethylethyl)-4,9,10-trimethoxyl-methyl- (CA INDEX NAME)

L8 ANSWER 20 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2000:249798 CAPLUS Full-text

Document Number

132:270100

Antiseptic compositions containing polyphenols for pharynx mucosa

Author/Inventor Okudaira, Ichiro; Kakuta, Kenji

Patent Assignee/Corporate Source
Taisho Pharmaceutical Co., Ltd., Japan Source

Jpn. Kokai Tokkyo Koho, 5 pp. CODEN: JKXXAF Document Type Patent

Language
Japanese
Patent Information

it information						
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
	JP 2000109428	A	20000418	JP 1998-283060	19981005	

Compns., which relieve discomfort of throat such as congestion, swelling, etc., contain polyphenols and disinfectants. The polyphenols may be tannic acid, gallic acid, its derivs., galloylgallic acid, luteic acid, ellagic acid, catechin, epigallocatechin, leucocyanidins, mollisacacidin, etc., and the disinfectants may be chlorhexidine, decalinium, cetylpyridinium, etc. Tannic acid 2000, chlorhexidine hydrochloride 15, lysozyme chloride 30, lactose 175, low-substituted hydroxypropyl cellulose 150, Mg stearate 15, and hydrogenated castor oil 15 g were mixed and compressed to give lozenges (300 mg/lozenge). Efficacy of the lozenges was also examined Hit Structure

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-1-carboxylic acid, 3,4,8,9,10-pentahydroxy-6-oxo-(CA INDEX NAME)

, L8 ANSWER 21 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2000:190760 CAPLUS <u>Full-text</u>
Document Number 132:222437

Title

Method for the radical alkylation of arenes

Eur. Pat. Appl., 27 pp. CODEN: EPXXDW

Document Type Patent

Language English Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 987235	A1	20000322	EP 1999-116091	19990817
EP 987235	B1	20030312		

Abstract

The title process comprises a method for the conversion of alkenes or arenes with iodoalkenes, aryl iodides or arenediazonium salts in the presence of hypophosphorous acid or its derivs. and a radical initiator. Thus, O-allyl-3, 5-diiodosalicylic acid was refluxed with H3PO2/AlBN/H2O to give 3-methyl-2,3-dihydrobezofuran-7-carboxylic acid. Hit Structure

CAS Registry Number 1100517-35-8 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran, 8-ethenyl-3-(trifluoromethoxy)- (CA INDEX NAME)

CAS Registry Number 1100517-38-1 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran, 3-ethenyl-8-(2-propen-1-yl)- (CA INDEX NAME)

CAS Registry Number 1100517-43-8 CAPLUS

Chemical or Trade Name
Cyclohexanecarboxylic acid, 4-(pentyloxy)-,
3-fluoro-6H-dibenzo[b,d]pyran-8-yl ester (CA INDEX NAME)

$$\begin{array}{c} \text{O-}(\text{CH}_2)_4\text{-Me} \\ \\ \text{F} \end{array}$$

L8 ANSWER 22 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2000:124139 CAPLUS <u>Full-lext</u>

Document Number

132:260391

Hyaluronidase inhibitory active 6H-dibenzo[b,d]pyran-6-ones from the feces of Trogopterus xanthipes

Author/Inventor
Jeong, Sei-Joon; Kim, Na-Young; Kim, Do-Hoon; Kang, Tai-Hyun; Ahn, Nyeon-Hyung; Miyamoto, T.; Higuchi, R.; Kim, Youn-Chul
Patent Assignee/Corporate Source
College Pharmacy, Wonkwang Univ., Iksan, 570749, S. Korea

Source

Planta Medica (2000), 66(1), 76-77 CODEN: PLMEAA; ISSN: 0032-0943

Document Type

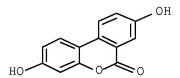
Language English

Abstract

In an attempt to isolate hyaluronidase inhibitors for the development of antiallergic agents from Korean crude drugs, a bioassay-guided fractionation of the MeOH extract of Pieropi feces (the feces of Trogopterus xanthipes) provided 3 hyaluronidase inhibitory active 6H-dibenzo[b,d]-pyran-6-one. Their structures were established on the basis of the spectroscopic methods. Three dibenzopyranone compds. showed hyaluronidase inhibitory activities with IC50 of 1.33, 1.07, and 2.33 mM, resp., compared to 1.78 mM for disodium cromoglycate, an antiallergic agent, as a pos. control. Hit Structure

CAS Registry Number 1143-70-0 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-dihydroxy- (CA INDEX NAME)



OS.CITING REF COUNT:

15

THERE ARE 15 CAPLUS RECORDS THAT CITE THIS RECORD (15 CITINGS)

L8 ANSWER 23 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number 2000:62091 CAPLUS Full-text

Document Number

132:207676

Title

Synthesis of novel polyfunctionally substituted coumarins as antibacterial agents

Author/Inve

El-Gaby, Mohamed S. A.; Ghorab, Moustafa M.; Abdel-Gawad, Soad M.
Patent Assignee/Corporate Source
Department of Chemistry, Faculty of Science, Al-Azhar University at Assiut, Assiut, 71524, Egypt Source

Acta Pharmaceutica (Zagreb) (1999), 49(4), 257-266 CODEN: ACPHEE; ISSN: 1330-0075

Document Type

Language English

Abstract

ts Fusion of 2,4-dihydroxyacetophenone and Et cyanoacetate furnished coumarin (I) (R1 = H, R2 = Me). I (R1 = H, R2 = Me) on refluxing with acetic anhydride or propionic anhydride yielded the corresponding acetoxy- and propionoxy- coumarins resp. I (R1 = H, R2 = Me) and I (R1 = Ac, R2 = Me) reacted with elemental sulfur in ethanol/piperidine to yield thienol3,4-c]coumarins (II) (R1 = H, Ac). 4-Styrylcoumarins I (R1 = Ac, R2 = Me) reacted with acetic aldehydes. When coumarin I (R1 = Ac, R2 = Me) was refluxed with arylidenemalononitriles in ethanol/piperidine, benzo[c]coumarins (e.g., III) (Ar = C6H44C-p) were obtained. Compound III (Ar = C6H44C4C-p) reacted with acetic anhydride, propionic anhydride, Ph isothiocyanate and formamide to yield the corresponding coumarins (IV), (V), (V) and (VII), resp. Some of these compds, were screened in vitro for their antibacterial activities.

CAS Registry Number 260793-07-5 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-8-carbonitrile, 3-(acetyloxy)-7-amino-9-(4-chlorophenyl)-6-oxo- (CA INDEX NAME)

CAS Registry Number 260793-19-9 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-8-carbonitrile, 3-(acetyloxy)-7-amino-9-(4-fluorophenyl)-6-oxo- (CA INDEX NAME)

CAS Registry Number 260793-09-7 CAPLUS

Chemical or Trade Name Propanamide, N-[3-(acetyloxy)-9-(4-chlorophenyl)-8-cyano-6-oxo-6H-dibenzo[b,d]pyran-7-yl]- (CA INDEX NAME)

CAS Registry Number 260793-20-2 CAPLUS

Chemical or Trade Name
6H-Dibenzo[b,d]pyran-8-carbonitrile,
3-(acetyloxy)-7-amino-9-(2-methoxyphenyl)-6-oxo- (CA INDEX NAME)

CAS Registry Number 260793-21-3 CAPLUS

Chemical or Trade Name
6H-Dibenzo[b,d]pyran-8-carbonitrile,
3-(acetyloxy)-7-amino-9-(4-methoxyphenyl)-6-oxo- (CA INDEX NAME)

OS.CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)

L8 ANSWER 24 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number
1999:779637 CAPLUS <u>Fullest</u>
Document Number
132:191363

Title

3-Hydroxyanthranilic acid-derived compounds formed through electrochemical oxidation
 Author/Inventor
 Iwahashi, H.

манази, л.
Patent Assignee/Corporate Source
Department of Chemistry, Wakayama Medical College, Wakayama, Japan

Journal of Chromatography, B: Biomedical Sciences and Applications (1999), 736(1 + 2), 237-245 CODEN: JCBBEP; ISSN: 0378-4347

Document Type
Journal
Language
English

Abstract

31-Hydroxyanthranilic acid (3-HAA)-derived oxidation products were analyzed using high-performance liquid chromatog, with an electrochem, reactor and diode array detection and high-performance liquid chromatog, with an electrochem, reactor and UV detection coupled with mass spectrometry. In addition to 3-HAA dimers such as cinnabarinic acid (CA), 6-amino-3-{(2-carboxy-6-hydroxyphenyl)amino}-2,6-dioxo-1,3-cyclohexadiene-1-carboxylic acid, a 3-HAA trimer and a 3-HAA tetramer were also detected and identified based on their electrospray ionization mass spectra and their UV-visible spectra. These five oxidation products were also detected on the elution profiles of high-performance liquid chromatog,-diode array detection analyses for the reaction mixts. of the auto-oxidation of 3-HAA, of 3-HAA with horseradish peroxidase and hydrogen peroxide, and of 3-HAA with superoxide dismutase (SOD), 4,7-Diamino-8-hydroxy-6H-dibenzo[a,d]pyran-6-one-3-carboxylic acid was predominant in the auto-oxidation, in the reaction of 3-HAA with horseradish peroxidase and hydrogen peroxide, and the electrochem, oxidation of 3-HAA at an applied potential of 0.0 V. On the other hand, CA, the 3-HAA trimer and the 3-HAA tetramer were predominant in the reaction of 3-HAA with K3[Fe(CN)6] and in the electrochem, oxidation of 3-HAA at an applied potential of 1.0 V.

Hit Structure

CAS Registry Number 129085-80-9 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-3-carboxylic acid, 4,7-diamino-8-hydroxy-6-oxo- (CA INDEX NAME)

10

OS.CITING REF COUNT:

THERE ARE 10 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)

, L8 ANSWER 25 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1999-28055 CAPLUS Fuil-text Document Number

130:99961

Title

Multicomponent enzyme system for treating wastewaters especially from processing wood, pulp, and paper and for organic syntheses and coal liquefaction

Author/Inventor Call, Hans-Peter

Patent Assignee/Corporate Source Call, Krimhild, Germany

Source

Ger. Offen., 54 pp. CODEN: GWXXBX

Document Type Patent

Language German

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19726241	A1	19981224	DE 1997-19726241	19970620
WO 9901607	A2	19990114	WO 1998-DE1694	19980619
WO 9901607	АЗ	19990624		

Abstract

The multicomponent system containing oxidoreductases comprises (a) ≥1 oxidation catalyst; (b) ≥1 oxidant; (c) a mediator selected from among hydroxyl amines, hydroxyl amine derivs., hydroxamic acids, hydroxamic acids derivs. or aliphatic, aromatic, cycloaliph, heterocyclic, or aromatic compds. having at least one N-hydroxy, oxime, N-oxy-, or NN'-dioxy function; (d) ≥1 mediator chosen from amides such as hydrazides or 1,2,4-triazolidine-3,5-dione; (e) ≥1 mediator chosen from imides such as hydrazides or 1,2,4-triazolidine-3,5-dione; (e) ≥1 co-mediator chosen from mides such as hydrazides or 1,2,4-triazolidine-3,5-dione; (e) ≥1 co-mediator chosen from mides such as hydrazides or 1,2,4-triazolidine-3,5-dione; (e) ≥1 co-mediator chosen from arysubstituted alcs., carbonyl compds., aliphatic ethers, phenol ether, and/or olefins; (h) ≥1 co-mediator chosen from among the above-mentioned mediators and including radical anions; and (i) a small amount of a free amine of one of the mediators.

CAS Registry Number 104320-85-6 CAPLUS

Chemical or Trade Name
D-Glucose, cyclic 4,6-[(2S,2'S)-2,2'-(5,10-dihydro-2,3,7,8-tetrahydroxy-5,10-dicox(1]benzopyrano[5,4,3-cde][1]benzopyran-1,6-diy1)bis[3,4,5-trihydroxybenzoate]], cyclic 2,3-ester with
4-(6-carboxy-2,3,4-trihydroxyphenoxy)-3,8,9,10-tetrahydroxy-6-oxo-6H-dibenzo[b,d]pyran-1-carboxylic acid (9CI) (CA INDEX NAME)

CM 1

CRN 104243-50-7 CMF C21 H12 014

$$\begin{array}{c|c} & \text{OH} & \text{OH} & \text{OH} \\ & \text{HO} & \text{OH} & \text{OH} \\ & \text{HO} & \text{OH} & \text{OH} \\ \end{array}$$

CRN 65995-64-4 CMF C34 H22 O22

OS.CITING REF COUNT: THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

L8 ANSWER 26 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number 1998:636367 CAPLUS <u>Full-text</u>

Title

Biodistribution of, antimutagenic efficacies in Salmonella typhimurium of, and inhibition of P450 activities by ellagic acid and one analog Author/Inventor Castonguay, Andre; Boukharta, Mohamed; Teel, Robert

Patent Assignee/Corporate Source
Laboratory of Cancer Etiology and Chemoprevention Faculty of Pharmacy, Laval University, Quebec, G1K 7P4, Can. Source

Chemical Research in Toxicology (1998), 11(11), 1258-1264 CODEN: CRTOEC; ISSN: 0893-228X

Language English

Ellagic acid (EA) is generated by hydrotysis of ellagitamnins present in fruit berries and edible nuts and grapes. Large doses of EA prevent lung tumorigenesis induced by the tobacco carcinogen 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone (NINQ) in AU mice. The authors documented the efficacies of the EA structural analog (3.4.7,8-tetrahydroxy-6H-benzolp.d)pyran-6-one) (analog 1) to inhibit specific P 450 activities, pulmonary metabolism of 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone (NINQ) in AU mice, and NINK-induced mutations in S. typhimurium. Mouse lung microsomes metabolized benzyloxyresorutin, a marker of cytochrome P 450 2B1 activity, more extensively than methoxyresorutins, suggesting that it is a nonspecific inhibitor of P450s. Mouse lung microsomes hydroxylate testosterone in the 7a and 6p positions, suggesting contributions of P450 3A2 isoenzymes, resp. Inhibition of both pathways was more effective with the EA analog than with EA. Mouse lung explants metabolized NINK by ac-C hydroxylation (activation) and pyridine N-oxidation (deviation). Both pathways were inhibited when 100 µM EA was added to the culture mediator. The EA analog was a bather inhibitor of the activation of NINK to electrophilic species than EA. Mouse lung microsomes activate NINK to intermediates mutagenic to S. typhimurium. Inhibition of NINK mutagenicity by EA or the EA analog was 20 or 65%, resp. The distribution of the analog. The level in liver tissues was 4-fold lower than in the lung. These results demonstrated that the EA analog is more effective than EA in inhibiting the pulmonary activation of NINK and suggest that the EA analog could be effective in preventing lung tumorigenesis.

Hit Structure

CAS Registry Number 131086-94-7 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,4,7,8-tetrahydroxy- (CA INDEX NAME)

THERE ARE 11 CAPLUS RECORDS THAT CITE THIS RECORD (11 CITINGS) OS.CITING REF COUNT: 11

L8 ANSWER 27 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1998:586271 CAPLUS <u>Full-text</u>

Document Number

129:223347 Title

Liquid-crystal compound with high negative dielectric anisotropy, its composition, and display device using it

Author/Inventor

Yano, Hitoshi; Dems

Patent Assignee/Corporate Source Chisso Corp., Japan

Source

Jpn. Kokai Tokkyo Koho, 29 pp. CODEN: JKXXAF

Document Type Patent

Language Jananese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION	NO.	DATE
JP 10236992	A2	19980908JP	1997-57045	19970225	

The title compound contains structure I [G = C1-6 alkylene, O, S, Se, imino, silylene, SO; H atoms in imino and silylene may be substituted by C1-10 alkyl; ≥1 methylene group in the alkylene may be substituted by O, S, Se, N, C.tplbond.C, vinylene, or (substituted) silylene; atoms in the compound may be substituted by isotope]. The liquid-crystal composition containing ≥1 of the above compound and composed of ≥2 components and the display device using the composition are also claimed. The compound has low viscosity and controlled optical anisotropy.

CAS Registry Number 212502-55-1 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran, 1,2,9,10-tetrafluoro-8-propyl-3-[(trans-4-propylcyclohexyl)methoxy]- (CA INDEX NAME)

CAS Registry Number 212502-56-2 CAPLUS

Chemical or Trade Name

6H-Dibenzo[b,d]pyran, 1,2,9,10-tetrafluoro-3-propyl-8-[(trans-4-propylcyclohexyl)methoxy]- (CA INDEX NAME)

L8 ANSWER 28 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number 1998:103883 CAPLUS Full-text
Document Number 128:217513

Title

Novel concepts in directed biaryl synthesis. 63. Astropo-Enantioselective synthesis of a simplified analog of mastigophorenes A and B Author/Inventor

Bringmann, Gerhard; Pabst, Thomas Busemann, Stefan; Peters, Karl; Peters, Eva-Maria

Patent Assignee/Corporate Source Institut fur Organische Chemie, universitat Wurzburg, Wurzburg, D-97074, Germany

Tetrahedron (1998), 54(8), 1425-1438 CODEN: TETRAB; ISSN: 0040-4020

Document Type Journal Language English

A first approach to the atroposelective total synthesis of mastigophorenes is described, the directed preparation of a structurally slightly modified analog of mastigophorenes A and B, with a tert-Bu instead of a substituted, chiral cyclopentyl residue. Its (partially protected) monomeric half is dimerized by oxidative (phenolic) coupling to give the corresponding biphenyl in a racemic form, or atropo-enantioselectively via the corresponding biaryl lactone, to give the M- or, optionally, the P-enantiomeric form, by stereoselective ring opening and subsequent standard transformations.

Hit Structure

CAS Registry Number 203984-69-4 CAPLUS

Chemical or Trade Name 6H-Dibenzo(b,d)pyran-6-one, 3,8-bis(1,1-dimethylethyl)-4,9,10-trimethoxy-1-methyl- (CA INDEX NAME)

37

OS.CITING REF COUNT:

THERE ARE 37 CAPLUS RECORDS THAT CITE THIS RECORD (39 CITINGS)

L8 ANSWER 29 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN

L8 ANSWER 29 OF 165 CAPLUS CC Accession Number 1998:102937 CAPLUS <u>Fuli-text</u> Document Number 128:196717

Title

Method for producing blood-compatible materials by covalent surface coating of synthetic polymers with water-soluble natural or modified oligo- and polysaccharides Author/Inventor
Baumann, Hanno Lutz; Huppertz, Bernd Holger

Patent Assignee/Corporate Source
Baumann, Hanno Lutz, Germany; Huppertz, Bernd Holger

Source

Ger. Offen., 16 pp. CODEN: GWXXBX

Document Type Patent

Language German

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
	DE 19630879	A1	19980205	DE 1996-19630879	19960731		

delymer implants and other plastic devices which come in contact with blood are rendered blood compatible by covalently immobilizing endothelial cell surface heparan sulfate (ES-HS) on the polymer surface. ES-HS-coated surfaces show no platelet adhesion and no affinity for platelet aggregating or platelet adhesion-promoting proteins, as shown by expts. in which 50 mL citrated blood was cycled through a loop of ES-HS-coated silicone tubing for 10 min and the loss of platelets from the blood was measured.

Hit Structure

CAS Registry Number 476-67-5 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-1-carboxylic acid, 3,4,8,9,10-pentahydroxy-6-oxo-(CA INDEX NAME)

THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS) OS.CITING REF COUNT:

, L8 ANSWER 30 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1998:48716 CAPLUS Full-text Document Number

128:188303

Title

DNA gyrase inhibitory activity of ellagic acid derivatives

Author/Invento

Weidner-Wells, Michele A.; Altom, Jason; Fernandez, Jeffrey; Fraga-Spano, Stephanie A.; Hilliard, Jamese; Ohemeng, Kwasi; Barrett, John F. Patent Assignee/Corporate Source
Drug Discovery, R.W. Johnson Pharmaceutical Research Institute, Raritan, NJ, 08869, USA

Source Bioorganic & Medicinal Chemistry Letters (1998), 8(1), 97-100 CODEN: BMCLE8; ISSN: 0960-894X

Document Type Journal

Language English

Abstract

Ellagic acid was found to inhibit Escherichia coli DNA gyrase supercoiling with approx. the same potency as nalidixic acid. Tricyclic analogs of ellagic acid, which vary in the number and position of the hydroxy groups as well as their replacement with halogens, have been synthesized. The tool, activity of these analogs is discussed. Hit Structure

CAS Registry Number 131086-98-1 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,4,8,9-tetrahydroxy- (CA INDEX NAME)

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 2,3,8,9-tetrahydroxy- (CA INDEX NAME)

CAS Registry Number 203631-64-5 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,4,8-trihydroxy- (CA INDEX NAME)

CAS Registry Number 203631-67-8 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,4-dichloro-8,9-dihydroxy- (CA INDEX NAME)

$$C1$$
 OH OH

CAS Registry Number 203631-68-9 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,4-difluoro-8,9-dihydroxy- (CA INDEX NAME)

$$F \xrightarrow{\mathsf{OH}} \mathsf{OH}$$

CAS Registry Number 203631-70-3 CAPLUS

Chemical or Trade Name
6H-Dibenzo[b,d]pyran-6-one, 3,4,8,9-tetrahydroxy-1-methyl- (CA INDEX NAME)

7

OS.CITING REF COUNT:

THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)

L8 ANSWER 31 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number 1998:45156 CAPLUS <u>Full-text</u>

Title

5-Aryl-1,2-dihydro-5H-chromeno[3,4-f]quinolines as Potent, Orally Active, Nonsteroidal Progesterone Receptor Agonists: The Effect of D-Ring Substituents

Departments of Medicinal Chemistry New Leads Discovery and Endocrine Research, Ligand Pharmaceuticals Inc., San Diego, CA, 92121, USA

Journal of Medicinal Chemistry (1998), 41(3), 303-310 CODEN: JMCMAR; ISSN: 0022-2623 Document Type

Journal

Language English

Abstract

st Several 5-(4-chlorophenyl)-1,2-dihydro-5H-chromeno[3,4-f]quinolines were prepared to determine the effects of substitution at C(8) and C(9) on the progestational activity of this pharmacophore. In combination with a halogen (F or Cl) at C(9), replacement of the C(5) aryl group with variously substituted anyl groups resulted in optimization of the progestational activity, affording compds, with in vitro activity greater than that of progesterone as measured by a co-transfection assay using human progesterone receptor subtype-B (hPR-B). Binding affinities (K) to hPR-A were subnaromolar in many cases. These in vitro effects were verified in vivo using a rodent model. LG120794, 9-chloro-5-(4-chlorophenyl)-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline was more potent than medroxyprogesterone acetate at counter-poising the effects of estradiol benzoate in the uterine weight wet assay using immature rats.

Hit Structure

CAS Registry Number 179898-13-6 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3-fluoro-8-nitro- (CA INDEX NAME)

OS.CITING REF COUNT:

47 THERE ARE 47 CAPLUS RECORDS THAT CITE THIS RECORD (48 CITINGS)

L8 ANSWER 32 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number 1998:8172 CAPLUS <u>Full-lext</u> Document Number

128:75320

Title

Preparation of quinoline derivatives and analogs as steroid receptor modulator compounds and method of progesterone receptor therapy

Author/Inventor

Jones, Todd K.; Goldman, Mark E.; Pooley, Charlotte Lf; Winn, David T.; Edwards, James P.; West, Sarah J.; Tegley, Christopher M.; Zhi, Lin; Hamann, Lawrence G.; Farmer, Luc J.; Davis, Robert L.

Patent Assignee/Corporate Source Ligand Pharmaceuticals Inc., USA

Source
U.S., 125 pp., Cont.-in-part of U.S. Ser. No. 363,529, abandoned. CODEN: USXXAM Document Type Patent

Language

Patent I

English Information				
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5696133	A	19971209	US 1995-465556	19950605
CA 2208347	A1	19960627	CA 1995-2208347	19951213
WO 9619458	A2	19960627	WO 1995-US16096	19951213
WO 9619458	А3	19961212		
AU 9645977	A	19960710	AU 1996-45977	19951213
AU 717251	B2	20000323		
EP 800519	A1	19971015	EP 1995-944089	19951213
EP 800519	B1	20031022		
CN 1175247	A	19980304	CN 1995-197702	19951213

CN 1172917	С	20041027		
BR 9510486	A	19980602	BR 1995-10486	19951213
JP 10510840	T	19981020	JP 1996-519861	19951213
HU 78117	A2	19991129	HU 1997-2305	19951213
EP 1041071	A1	20001004	EP 2000-113914	19951213
EP 1041066	A1	20001004	EP 2000-113915	19951213
EP 1043325	A1	20001011	EP 2000-113829	19951213
EP 1043325	B1	20040616		
EP 1043326	A1	20001011	EP 2000-113830	19951213
EP 1043315	A1	20001011	EP 2000-113916	19951213
RU 2191774	C2	20021027	RU 1997-112141	19951213
AT 252560	т	20031115	AT 1995-944089	19951213
EP 1382597	A2	20040121	EP 2003-23907	19951213
EP 1382597	АЗ	20040407		
PT 800519	E	20040331	PT 1995-944089	19951213
ES 2208699	ТЗ	20040616	ES 1995-944089	19951213
AT 269336	Т	20040715	AT 2000-113829	19951213
CN 1626534	Α	20050615	CN 2004-10074078	19951213
NO 9702591	A	19970814	NO 1997-2591	19970606
NO 310617	B1	20010730		
US 6696459	В1	20040224	US 1997-950032	19971014
AU 762398	В2	20030626	AU 2000-27761	20000414
NO 2000003550	A	19970814	NO 2000-3550	20000710
NO 312098	В1	19970814	NO 2000-3551	20000710
NO 2000003551	Α	19970814		
NO 2000003552	A	19970814	NO 2000-3552	20000710
NO 313049	B1	20020814		
AU 2003248406	A1	20031106	AU 2003-248406	20030926
US 20040186132	A1	20040923	US 2003-739933	20031217
JP 2007217418	А	20070830	JP 2007-48504	20070228

Abstrac

Non-steroidal title compds. HII and analogs are disclosed [wherein R1-R3 = H, C1-6 alkyl (un)substituted anyl, heteroaryl, alkyl, arylmethyl, alkynyl, or alkenyl; R4 = H, alkyl, COR5, OR6, NR6R7; R5 = H, alkyl, (un)substituted allyl, arylmethyl, alkenyl, alkynyl, aryl, or heteroaryl; R6, R7 = H, alkyl, (un)substituted allyl, arylmethyl, alkynyl, or alkenyl; R1 = H, alkyl, (un)substituted allyl, arylmethyl, alkynyl, or alkenyl; R1 = H, alkyl, OR6, (un)substituted allyl, arylmethyl, alkynyl, or alkenyl; R1 = H, alkyl, or alkenyl; R1 = H, alkyl, OR6, (un)substituted allyl, arylmethyl, alkynyl, or alkenyl; R1 = H, alkyl, OR6, (un)substituted allyl, arylmethyl, alkynyl, or alkenyl; R1 = H, alkyl, OR6, (un)substituted allyl, arylmethyl, alkynyl, or alkenyl; R1 = H, alkyl, or or alkenyl; R1 = H, alkyl, OR6, OR6, NR6R7; R5 = H, alkyl, or alkenyl; R1 = H, alkyl, or alkyl, alkynyl, arylmethyl, alkynyl, arylmethyl, alkynyl, arylmethyl, alkynyl, or alkenyl; R1 = H, alkyl, OR6, OR6, NR6R7; R5 = H, alkyl, (un)substituted allyl, arylmethyl, alkynyl, alkynyl, arylmethyl, alkynyl, alkynyl, arylmethyl, alkynyl, arylmethyl, alkynyl, alkynyl, arylmethyl, alkynyl, arylmethyl, alkynyl, arylmethyl, alkynyl, arylmethyl, alkynyl, arylmethyl, alkynyl, arylmethyl, alkynyl, alkynyl, alkynyl, arylmethyl, alkynyl, arylmethyl, alkynyl, arylmethyl, alkynyl, alkynyl, arylmethyl, alkynyl, alkynyl, arylmethyl, alkynyl, arylmethyl, alkynyl, alkynyl, arylmethyl, alkynyl, alkynyl, alkynyl, alkynyl, alkynyl, alkynyl, arylmethyl, alkynyl, alkynyl,

Hit Structure

CAS Registry Number 56825-78-6 CAPLUS

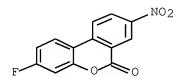
Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3-chloro-8-nitro- (CA INDEX NAME)

CAS Registry Number 56825-81-1 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 8-amino-3-chloro- (CA INDEX NAME)

CAS Registry Number 179898-13-6 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3-fluoro-8-nitro- (CA INDEX NAME)



CAS Registry Number 179898-14-7 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 8-amino-3-fluoro- (CA INDEX NAME)

OS.CITING REF COUNT: 24 THERE ARE 24 CAPLUS RECORDS THAT CITE THIS RECORD (29 CITINGS)

, L8 ANSWER 33 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1997:809721 CAPLUS Full-text Document Number

128:61505 Title

Preparation of tricyclic heterocycle-fused quinoline derivatives as steroid receptor modulators and methods of their use Author/Inventor

Jones, Todd K.; Winn, David T.; Goldman, Mark E.; Hamann, Lawrence G.; Zhi, Lin; Farmer, Luc J.; Davis, Robert L.

Patent Assignee/Corporate Source
Ligand Pharmaceuticals Inc., USA Source

U.S., 127 pp., Cont.-in-part of U.S. Ser. No. 363,529, abandoned. CODEN: USXXAM

Document Type Patent

Language

English

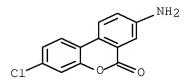
nformation				
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5696130	A	19971209	US 1995-462643	19950605
CA 2208347	A1	19960627	CA 1995-2208347	19951213
WO 9619458	A2	19960627	WO 1995-US16096	19951213
WO 9619458	А3	19961212		
AU 9645977	A	19960710	AU 1996-45977	19951213
AU 717251	B2	20000323		
EP 800519	A1	19971015	EP 1995-944089	19951213
EP 800519	B1	20031022		
CN 1175247	A	19980304	CN 1995-197702	19951213
CN 1172917	С	20041027		
BR 9510486	A	19980602	BR 1995-10486	19951213
JP 10510840	т	19981020	JP 1996-519861	19951213
HU 78117	A2	19991129	HU 1997-2305	19951213
EP 1041071	A1	20001004	EP 2000-113914	19951213
EP 1041066	A1	20001004	EP 2000-113915	19951213
EP 1043325	A1	20001011	EP 2000-113829	19951213
EP 1043325	B1	20040616		
EP 1043326	A1	20001011	EP 2000-113830	19951213
EP 1043315	A1	20001011	EP 2000-113916	19951213
RU 2191774	C2	20021027	RU 1997-112141	19951213
AT 252560	т	20031115	AT 1995-944089	19951213
EP 1382597	A2	20040121	EP 2003-23907	19951213
EP 1382597	А3	20040407		
PT 800519	E	20040331	PT 1995-944089	19951213
ES 2208699	Т3	20040616	ES 1995-944089	19951213
AT 269336	Т	20040715	AT 2000-113829	19951213
CN 1626534	Α	20050615	CN 2004-10074078	19951213
NO 9702591	A	19970814	NO 1997-2591	19970606
NO 310617	B1	20010730	1.1	
US 6121450	A	20000919	US 1997-947427	19971008
AU 762398	B2	20030626	AU 2000-27761	20000414
NO 2000003550	A	19970814	NO 2000-3550	20000710
NO 312098	B1	19970814	NO 2000-3551	20000710
NO 2000003551	Α	19970814		
NO 2000003552	A	19970814	NO 2000-3552	20000710
NO 313049	B1	20020814		
AU 2003248406	A1	20031106	AU 2003-248406	20030926
JP 2007217418	Α	20070830	JP 2007-48504	20070228
t				

or Non-steroidal title compds. I-III and analogs are disclosed [wherein R3 = H, C1-4 alkyl or perfluoroalkyl, CH2OH, aryl, heteroaryl, or (un)substituted allyl, arylmethyl, alkynyl, or alkenyl; R22, R26 = H, F, Cl, Br, iodo, C1-4 alkyl, OR2, SR2, NR2R7; wherein R2 = H, C1-4 alkyl or perfluoroalkyl, aryl, heteroaryl, or (un)substituted allyl, arylmethyl, alkynyl, or alkenyl; R7 = H, C1-4 alkyl or perfluoroalkyl, un)substituted allyl, arylmethyl, alkynyl, or alkenyl; R7 = H, C1-6 alkyl or perfluoroalkyl, un)substituted allyl, arylmethyl, alkynyl, or alkynyl, or alkyl, perfluoroalkyl, theteroaryl, alkyl, arylmethyl, alkynyl, or alkyl, perfluoroalkyl, aryl, heteroaryl, (an)substituted allyl, arylmethyl, alkynyl, or alkyl, perfluoroalkyl, heteroaryl, or (un)substituted allyl, arylmethyl, alkynyl, or alkyl, perfluoroalkyl, heteroaryl, or (un)substituted allyl, arylmethyl, alkynyl, or alkyl, perfluoroalkyl, heteroaryl, or (un)substituted allyl, arylmethyl, alkynyl, or alkyl, perfluoroalkyl, heteroaryl, or (un)substituted allyl, arylmethyl, alkynyl, or heteroaryl; R32, R33 = H, C1-6 alkyl, (un)substituted allyl, arylmethyl, alkynyl, or heteroaryl; R32, R33 = H, C1-6 alkyl, (un)substituted allyl, arylmethyl, alkynyl, or heteroaryl; R32, R33 = H, C1-6 alkyl, (un)substituted allyl, arylmethyl, alkynyl, or heteroaryl; R32, R33 = H, C1-6 alkyl, (un)substituted allyl, arylmethyl, alkynyl, or heteroaryl; R32, R33 = H, C1-6 alkyl, (un)substituted allyl, arylmethyl, alkynyl, or heteroaryl; R32, R33 = H, C1-6 alkyl, (un)substituted allyl, arylmethyl, alkynyl, or heteroaryl; R32, R33 = H, C1-6 alkyl, (un)substituted allyl, arylmethyl, alkynyl, or heteroaryl; R32, R33 = H, C1-6 alkyl, (un)substituted allyl, arylmethyl, alkynyl, or heteroaryl; R32, R33 = H, C1-6 alkyl, (un)substituted allyl, arylmethyl, alkynyl, or heteroaryl; R32, R33 = H, C1-6 alkyl, (un)substituted allyl, arylmethyl, alkynyl, or heteroaryl; R32, R32 = H, C1-6 alkyl, (un)substituted allyl, arylmethyl, alkynyl, or heteroaryl, R32, R32 = H, C1-6 alkyl, (un)substitu

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3-chloro-8-nitro- (CA INDEX NAME)

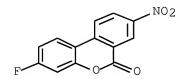
CAS Registry Number 56825-81-1 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 8-amino-3-chloro- (CA INDEX NAME)



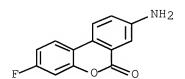
CAS Registry Number 179898-13-6 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3-fluoro-8-nitro- (CA INDEX NAME)



CAS Registry Number 179898-14-7 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 8-amino-3-fluoro- (CA INDEX NAME)



THERE ARE 22 CAPLUS RECORDS THAT CITE THIS RECORD (25 CITINGS) OS.CITING REF COUNT: 22

L8 ANSWER 34 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1997:809720 CAPLUS Full-text

Title

Tritle
Preparation of chromenoquinoline derivatives and analogs as steroid receptor modulator compounds and methods of their use
Author/Inventor
Jones, Todd K.; Zhi, Lin; Edwards, James P.; Tegley, Christopher M.; West, Sarah J.
Patent Assignee/Corporate Source
Ligand Pharmaceuticals Inc., USA

Source

Source
U.S., 129 pp., Cont.-in-part of U.S. Ser. No. 363,127, abandoned. CODEN: USXXAM
Document Type
Patent

Language
English
Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5696127	A	19971209	US 1995-465429	19950605

CA 2208347	A1	19960627	CA 1995-2208347	19951213
WO 9619458	A2	19960627	WO 1995-US16096	19951213
WO 9619458	АЗ	19961212		
AU 9645977	A	19960710	AU 1996-45977	19951213
AU 717251	B2	20000323		
EP 800519	A1	19971015	EP 1995-944089	19951213
EP 800519	В1	20031022		
CN 1175247	A	19980304	CN 1995-197702	19951213
CN 1172917	С	20041027		
BR 9510486	A	19980602	BR 1995-10486	19951213
JP 10510840	T	19981020	JP 1996-519861	19951213
HU 78117	A2	19991129	HU 1997-2305	19951213
EP 1041071	A1	20001004	EP 2000-113914	19951213
EP 1041066	A1	20001004	EP 2000-113915	19951213
EP 1043325	A1	20001011	EP 2000-113829	19951213
EP 1043325	B1	20040616		
EP 1043326	A1	20001011	EP 2000-113830	19951213
EP 1043315	A1	20001011	EP 2000-113916	19951213
RU 2191774	C2	20021027	RU 1997-112141	19951213
AT 252560	T	20031115	AT 1995-944089	19951213
EP 1382597	A2	20040121	EP 2003-23907	19951213
EP 1382597	АЗ	20040407		
PT 800519	Е	20040331	PT 1995-944089	19951213
AT 269336	Т	20040715	AT 2000-113829	19951213
CN 1626534	Α	20050615	CN 2004-10074078	19951213
NO 9702591	A	19970814	NO 1997-2591	19970606
NO 310617	В1	20010730		
US 6448405	в1	20020910	US 1997-947428	19971008
AU 762398	в2	20030626	AU 2000-27761	20000414
NO 2000003550	A	19970814	NO 2000-3550	20000710
NO 312098	В1	19970814	NO 2000-3551	20000710
NO 2000003551	Α	19970814		
NO 2000003552	A	19970814	NO 2000-3552	20000710
NO 313049	В1	20020814		
AU 2003248406	A1	20031106	AU 2003-248406	20030926
JP 2007217418	Α	20070830	JP 2007-48504	20070228

Abstract

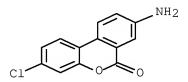
Non-steroidal title compds. HII and analogs (3 addnl. claimed Markush structures) are disclosed [wherein R3 = H, C1-4 alkyl or perfluoroalkyl, CH2OH, aryl, heteroaryl, or (un)substituted allyl, arylmethyl, alkynyl, or alkenyl; R8-6 = H, F, Cl, Br, iodo, NO2, CO2H, CO2R2, COR2, COR2, CO2H2, CO2R2, COR2, SOR2, SOR2, SO2R2, S

Hit Structure

CAS Registry Number 56825-78-6 CAPLUS

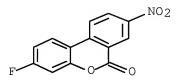
Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3-chloro-8-nitro- (CA INDEX NAME)

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 8-amino-3-chloro- (CA INDEX NAME)



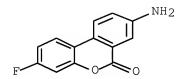
CAS Registry Number 179898-13-6 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3-fluoro-8-nitro- (CA INDEX NAME)



CAS Registry Number 179898-14-7 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 8-amino-3-fluoro- (CA INDEX NAME)



THERE ARE 21 CAPLUS RECORDS THAT CITE THIS RECORD (24 CITINGS)

L8 ANSWER 35 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1997:801084 CAPLUS Full-text

Document Number

128:93053

Title Humus, the epitome of Ayurvedio makshika

Author/Inventor
Ghosal, Shibnath; Muruganandam, V.; Mukhopadhyay, Biswajit; Bhattacharya, Salii K.
Patent Assignee/Corporate Source
Research and Development Division, Indian Herbs, Saharanpur, 247 001, India

Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1997), 36B(7), 596-604 CODEN: JJSBDB; ISSN: 0376-4699 Document Type Journal

Language English

at Ayurvedio makshika, a maharasa (rejuvenator, adaptogen), has been shown to be constituted of a large number of low Mr (mol. wt) humio intermediates, and medium and high Mr humio compds. These results dispel a long standing misbelief that the bloactive ingredients of makshika constitute only inorg, minerals, viz. iron and chalco-pyrites. The stability of the makshika-humus core appears to be due to complexation with transition metal ions which produce resonance stabilized metallo-organic species. The low Mr organic compds. of makshika, in their natural habitats, find ecol. niche within the micropores of humus and thereby fend off weathering and other extraneous onslaughts for ages. Humus seems to be not one but of all maharasas epitome. The general features of makshika and shilajit are compared in the light of their origin and biol. significance.

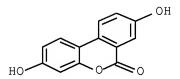
Hit Structure

CAS Registry Number 1143-70-0 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-dihydroxy- (CA INDEX NAME)

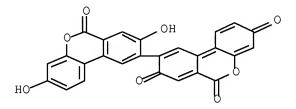
CAS Registry Number 1143-70-0 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-dihydroxy- (CA INDEX NAME)



CAS Registry Number 148351-84-2 CAPLUS

Chemical or Trade Name [9,9'-Bi-6H-dibenzo[b,d]pyran]-3,6,6',8-tetrone, 3',8'-dihydroxy- (CA INDEX NAME)



THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS) OS.CITING REF COUNT:

L8 ANSWER 36 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1997:772299 CAPLUS <u>Full-text</u>
Document Number 128:61503
Title

Title

Preparation of heterocycle-fused quinoline derivatives as steroid receptor modulator compounds

Author/Inventor

Jones, Todd K.; Zhi, Lin; Tegley, Christopher M.; Winn, David T.; Hamann, Lawrence G.; Edwards, James P.; West, Sarah J.

Patent Assignee/Corporate Source

Ligand Pharmaceuticals Inc., USA

Ligand Pharmaceuricals inc., OSA Source U.S., 126 pp., Cont.-in-part of U.S. Ser. No. 363,529, abandoned. CODEN: USXXAM Document Type Patent Language

Language English

Patent In

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PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5693647	A	19971202	US 1995-464546	19950605
CA 2208347	A1	19960627	CA 1995-2208347	19951213
WO 9619458	A2	19960627	WO 1995-US16096	19951213
WO 9619458	АЗ	19961212		
AU 9645977	A	19960710	AU 1996-45977	19951213
AU 717251	B2	20000323		
EP 800519	A1	19971015	EP 1995-944089	19951213
EP 800519	B1	20031022		
CN 1175247	A	19980304	CN 1995-197702	19951213
CN 1172917	С	20041027		
BR 9510486	A	19980602	BR 1995-10486	19951213
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HU 78117	A2	19991129	HU 1997-2305	19951213
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EP 1043315	A1	20001011	EP 2000-113916	19951213
RU 2191774	C2	20021027	RU 1997-112141	19951213

AT 252560	T	20031115	AT 1995-944089	19951213
EP 1382597	A2	20040121	EP 2003-23907	19951213
EP 1382597	АЗ	20040407		
PT 800519	E	20040331	PT 1995-944089	19951213
ES 2208699	ТЗ	20040616	ES 1995-944089	19951213
AT 269336	Т	20040715	AT 2000-113829	19951213
CN 1626534	Α	20050615	CN 2004-10074078	19951213
NO 9702591	A	19970814	NO 1997-2591	19970606
NO 310617	В1	20010730		
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NO 312098	В1	19970814	NO 2000-3551	20000710
NO 2000003551	Α	19970814		
NO 2000003552	A	19970814	NO 2000-3552	20000710
NO 313049	В1	20020814		
AU 2003248406	A1	20031106	AU 2003-248406	20030926
JP 2007217418	Α	20070830	JP 2007-48504	20070228

Abstract

Non-steroidal title compds. I and analogs are disclosed [wherein R3 = H, C1-4 alkyl or perfluoroalkyl, CH2OH, aryl, heteroaryl, or (un)substituted allyl, arylmethyl, alkynyl, or alkenyl; R3-R6 = H, F, Cl, Br, iodo, NO2, CO2H, CO2R2, COR2, cyano, CF3, CH2OH, C1-4 alkyl or perfluoroalkyl, aryl, heteroaryl, or (un)substituted allyl, arylmethyl, alkynyl, aralkenyl; R7 = H, C1-4 alkyl or perfluoroalkyl, aryl, heteroaryl, or (un)substituted allyl, arylmethyl, SO2R2, SO2R2, SO3H2, SIOR2, SIOR2, SO3H2, SIOR2, SIOR2,

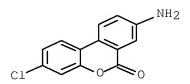
Hit Structure

CAS Registry Number 56825-78-6 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3-chloro-8-nitro- (CA INDEX NAME)

CAS Registry Number 56825-81-1 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 8-amino-3-chloro- (CA INDEX NAME)



CAS Registry Number 179898-13-6 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3-fluoro-8-nitro- (CA INDEX NAME)

CAS Registry Number 179898-14-7 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 8-amino-3-fluoro- (CA INDEX NAME)

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OS.CITING REF COUNT: 19 THERE ARE 19 CAPLUS RECORDS THAT CITE THIS RECORD (20 CITINGS)

L8 ANSWER 37 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1997:772298 CAPLUS <u>Full-text</u>

Document Number 128:61502

Title Preparation of chromenoquinoline derivatives and analogs as steroid receptor modulator compounds and methods Preparation of distributions and the Author/Inventor
Author/Inventor
Jones, Todd K.; Tegley, Christopher M.; Zhi, Lin; Edwards, James P.; West, Sarah J.
Patent Assignee/Corporate Source
Ligand Pharmaceuticals Inc., USA

U.S., 128 pp., Cont.-in-part of U.S. Ser. No. 363,529, abandoned. CODEN: USXXAM

Document Type Patent

Language

English

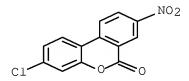
nformation				
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5693646	A	19971202	US 1995-464360	19950605
CA 2208347	A1	19960627	CA 1995-2208347	19951213
WO 9619458	A2	19960627	WO 1995-US16096	19951213
WO 9619458	А3	19961212		
AU 9645977	A	19960710	AU 1996-45977	19951213
AU 717251	B2	20000323		
EP 800519	A1	19971015	EP 1995-944089	19951213
EP 800519	B1	20031022		
CN 1175247	A	19980304	CN 1995-197702	19951213
CN 1172917	С	20041027		
BR 9510486	A	19980602	BR 1995-10486	19951213
JP 10510840	T	19981020	JP 1996-519861	19951213
HU 78117	A2	19991129	HU 1997-2305	19951213
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EP 1041066	A1	20001004	EP 2000-113915	19951213
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EP 1043325	B1	20040616		
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EP 1043315	A1	20001011	EP 2000-113916	19951213
RU 2191774	C2	20021027	RU 1997-112141	19951213
AT 252560	T	20031115	AT 1995-944089	19951213
EP 1382597	A2	20040121	EP 2003-23907	19951213
EP 1382597	А3	20040407		
PT 800519	E	20040331	PT 1995-944089	19951213
ES 2208699	ТЗ	20040616	ES 1995-944089	19951213
AT 269336	Т	20040715	AT 2000-113829	19951213
CN 1626534	Α	20050615	CN 2004-10074078	19951213
NO 9702591	A	19970814	NO 1997-2591	19970606
NO 310617	B1	20010730		
US 5994544	A	19991130	US 1997-947413	19971008
AU 762398	B2	20030626	AU 2000-27761	20000414
NO 2000003550	A	19970814	NO 2000-3550	20000710
NO 312098	В1	19970814	NO 2000-3551	20000710
NO 2000003551	Α	19970814		
NO 2000003552	A	19970814	NO 2000-3552	20000710
NO 313049	В1	20020814		
AU 2003248406	A1	20031106	AU 2003-248406	20030926
JP 2007217418	А	20070830	JP 2007-48504	20070228
t			1	

tot

Non-steroidal title compds. I-III and analogs are disclosed (wherein R3 = H, C1-4 alkyl or perfluoroalkyl, CH2OH, aryl, heteroaryl, or (un)substituted alkyl, arylmethyl, alkynyl, or alkenyl; R5-R6 = H, F, Cl, Br, iodo, NO2, CO2H, CO2R2, COR2, cyano, CF3, CH2OH, C1-4 alkyl or perfluoroalkyl, aryl, heteroaryl, or (un)substituted alkyl, arylmethyl, alkynyl, or alkenyl; R7 = H, C1-4 alkyl or perfluoroalkyl, aryl, heteroaryl, or (un)substituted alkyl, arylmethyl, alkynyl, or alkenyl; R7 = H, C1-4 alkyl or perfluoroalkyl, aryl, heteroaryl, or (un)substituted alkyl, arylmethyl, alkynyl, or alkenyl; R7 = H, C1-6 alkyl or perfluoroalkyl, aryl, heteroaryl, or (un)substituted alkyl, arylmethyl, alkynyl, or alkenyl; R7 = H, C1-6 alkyl or perfluoroalkyl, aryl, heteroaryl, or (un)substituted alkyl, arylmethyl, alkynyl, or alkenyl; R7 = H, C1-6 alkyl or perfluoroalkyl, aryl, heteroaryl, or (un)substituted alkyl, arylmethyl, alkynyl, or alkenyl; R7 = H, C1-6 alkyl, arylmethyl, alkynyl, or alkenyl; R7 = H, C1-6 alkyl, arylmethyl, alkynyl, or alkenyl; R7 = H, C1-6 alkyl, arylmethyl, alkynyl, or alkenyl; R7 = H, C1-6 alkyl, arylmethyl, alkynyl, or alkenyl; R7 = H, C1-6 alkyl, arylmethyl, alkynyl, or alkenyl; R7 = H, C1-6 alkyl, arylmethyl, alkynyl, or alkenyl; R7 = H, C1-6 alkyl, arylmethyl, alkynyl, or alkenyl; R7 = H, C1-6 alkyl, arylmethyl, alkynyl, or alkenyl; R7 = H, C1-6 alkyl, arylmethyl, alkynyl, or alkenyl; R7 = H, C1-6 alkyl, arylmethyl, alkynyl, or alkenyl; R7 = H, C1-6 alkyl, arylmethyl, alkynyl, or alkenyl; R7 = H, C1-6 alkyl, arylmethyl, alkynyl, or alkenyl; R7 = H, C1-6 alkyl, arylmethyl, alkynyl, or alkenyl; R7 = H, C1-6 alkyl, arylmethyl, alkynyl, or alkenyl; R7 = H, C1-6 alkyl, arylmethyl, alkynyl, or alkenyl; R7 = H, C1-6 alkyl, arylmethyl, alkynyl, or alkenyl; R7 = H, C1-6 alkyl, arylmethyl, alkynyl, or alkenyl; R7 = H, C1-6 alkyl, arylmethyl, alkynyl, or alkenyl; R7 = H, C1-6 alkyl, arylmethyl, alkynyl, or alkenyl; R7 = H, C1-6 alkyl, arylmethyl, alkynyl, or alkenyl; R7 = H, C1-6 alkyl, arylmethyl, alkyn

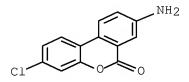
56825-78-6 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3-chloro-8-nitro- (CA INDEX NAME)



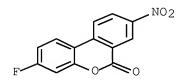
CAS Registry Number 56825-81-1 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 8-amino-3-chloro- (CA INDEX NAME)



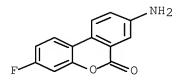
CAS Registry Number 179898-13-6 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3-fluoro-8-nitro- (CA INDEX NAME)



CAS Registry Number 179898-14-7 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 8-amino-3-fluoro- (CA INDEX NAME)



THERE ARE 21 CAPLUS RECORDS THAT CITE THIS RECORD (24 CITINGS) OS.CITING REF COUNT: 21

L8 ANSWER 38 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1997:752743 CAPLUS Full-text

Document Number

Title

Preparation and formulation of heterocyclic compounds as steroid receptor modulators

Author/Inventor
Jones, Todd K.; Goldman, Mark E.; Pooley, Charlotte Lf; Winn, David T.; Edwards, James P.; West, Sarah J.; Tegley, Christopher M.; Zhi, Lin
Patent Assignee/Corporate Source
Ligand Pharmaceuticals Inc., USA

Lugano Pharmaceus S. S., C. L. Source
U.S., 127 pp., Cont.-in-part of U.S. Ser. No. 363,529, abandoned. CODEN: USXXAM
Document Type
Patent

Language English Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5688810	A	19971118	US 1995-464541	19950605
CA 2208347	A1	19960627	CA 1995-2208347	19951213
WO 9619458	A2	19960627	WO 1995-US16096	19951213
WO 9619458	АЗ	19961212		
AU 9645977	A	19960710	AU 1996-45977	19951213
AU 717251	B2	20000323		
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EP 800519	B1	20031022		
CN 1175247	A	19980304	CN 1995-197702	19951213
CN 1172917	С	20041027		
BR 9510486	A	19980602	BR 1995-10486	19951213
JP 10510840	т	19981020	JP 1996-519861	19951213
HU 78117	A2	19991129	HU 1997-2305	19951213
EP 1041071	A1	20001004	EP 2000-113914	19951213
EP 1041066	A1	20001004	EP 2000-113915	19951213
EP 1043325	A1	20001011	EP 2000-113829	19951213
EP 1043325	B1	20040616		
EP 1043326	A1	20001011	EP 2000-113830	19951213
EP 1043315	A1	20001011	EP 2000-113916	19951213
RU 2191774	C2	20021027	RU 1997-112141	19951213
AT 252560	т	20031115	AT 1995-944089	19951213
EP 1382597	A2	20040121	EP 2003-23907	19951213
EP 1382597	А3	20040407		
PT 800519	E	20040331	PT 1995-944089	19951213
ES 2208699	ТЗ	20040616	ES 1995-944089	19951213
AT 269336	Т	20040715	AT 2000-113829	19951213
CN 1626534	Α	20050615	CN 2004-10074078	19951213
NO 9702591	A	19970814	NO 1997-2591	19970606
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US 6093821	A	20000725	US 1997-943853	19971008
AU 762398	В2	20030626	AU 2000-27761	20000414
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NO 2000003551	Α	19970814		
NO 2000003552	A	19970814	NO 2000-3552	20000710
NO 313049	B1	20020814		
AU 2003248406	A1	20031106	AU 2003-248406	20030926
JP 2007217418	Α	20070830	JP 2007-48504	20070228
ct	L			L

Abstract
The title compds., e.g. I [R1 = (un)substituted heteroaryl (said heteroaryl is attached to the benzene ring through a carbon or nitrogen atom); R3 = H, alkyl, etc.; R4, R5 = H, F, Cl, etc.; R6 = H, F, NO2, etc.; R9, R10 = H, alkyl, perfluoralkyl, etc.; dotted line depicts optional double bond), are prepared. Also disclosed are pharmaceutical compns. incorporating the title compds., methods for employing the disclosed compds. and compns. for treating patients requiring steroid receptor agonist or antagonist therapy, intermediates useful in the preparation of the compds. and processes for the preparation of the steroid receptor modulator compds. In ovariectomized rats dosed with the title compound II 3 mg orally once a day for 3 days and estrone 10 µg s.c., the mean uterine weight was 125 mg; in ovariectomized rats dosed with estrone 10 µg s.c. only, the mean uterine weight was 205 mg.

CAS Registry Number 179898-13-6 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3-fluoro-8-nitro- (CA INDEX NAME)

CAS Registry Number 179898-14-7 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 8-amino-3-fluoro- (CA INDEX NAME)

OS.CITING REF COUNT:

THERE ARE 31 CAPLUS RECORDS THAT CITE THIS RECORD (33 CITINGS)

L8 ANSWER 39 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1997:752742 CAPLUS <u>Full-text</u>
Document Number 128:34751

Title

31

Title
Preparation of heterocycle-fused quinoline derivatives as steroid receptor modulator compounds
Author/Inventor
Jones, Todd K.; Winn, David T.; Zhi, Lin; Hamann, Lawrence G.; Tegley, Christopher M.; Pooley, Charlotte L. F.
Patent Assignee/Corporate Source
Ligand Pharmaceuticals inc., USA
Source
U.S., 122 pp., Cont.-in-part of U.S. Ser. No. 363,529, abandoned. CODEN: USXXAM
Document Type
Patent
Language

Language
English
Patent Information

US 5688808 A 19971118 US 1995-463231 19 CA 2208347 A1 19960627 CA 1995-2208347 19 WO 9619458 A2 19960627 WO 1995-US16096 19 WO 9619458 A3 19961212 AU 9645977 A 19960710 AU 1996-45977 19 AU 717251 B2 20000323 EP 800519 A1 19971015 EP 1995-944089 19 EP 800519 B1 20031022 CN 1175247 A 19980304 CN 1995-197702 19 CN 1172917 C 20041027 ER 9510486 A 19980602 BR 1995-10486 19 JP 10510840 T 19981020 JP 1996-519861 19 HU 78117 A2 19991129 HU 1997-2305 19 EP 1041071 A1 20001004 EP 2000-113914 19 EP 1041066 A1 20001004 EP 2000-113915 19 EP 1043325 B1 20040616 EP 1043325 B1 20040616 EP 1043326 A1 20001011 EP 2000-113830 19 EP 1043315 A1 20001011 EP 2000-113830 19 EP 1043315 A1 20001011 EP 2000-113830 19 EP 1043315 A1 20001011 EP 2000-113829 19 EP 1382597 A2 20040121 EP 2003-23907 19 EP 1382597 A3 20040407 PT 800519 E 20040331 PT 1995-944089 19 ES 2208699 T3 20040616 ES 1995-944089 19 EN 30519 E 20040715 AT 2000-113829 19 CN 1626534 A 20050615 CN 2004-10074078 19 NO 9702591 A 19970814 NO 1997-2591 19 NO 310617 B1 20010730 AU 762398 B2 20030626 AU 2000-3550 20 NO 312098 B1 19970814 NO 2000-3550 20 NO 312098 B1 19970814 NO 2000-3552 20	
CA 2208347 A1 19960627 CA 1995-2208347 19 WO 9619458 A2 19960627 WO 1995-US16096 19 WO 9619458 A3 19961212 AU 9645977 A 19960710 AU 1996-45977 19 AU 717251 B2 20000323 EP 800519 A1 19971015 EP 1995-944089 19 EP 800519 B1 20031022 CN 1175247 A 19980304 CN 1995-197702 19 CN 1172917 C 20041027 BR 9510486 A 19980602 BR 1995-10486 19 JP 10510840 T 19981020 JP 1996-519861 19 HU 78117 A2 19991129 HU 1997-2305 19 EP 1041071 A1 20001004 EP 2000-113914 19 EP 1041066 A1 20001004 EP 2000-113915 19 EP 1043325 A1 20001011 EP 2000-113829 19 EP 1043325 B1 20040616 EP 1043326 A1 20001011 EP 2000-113830 19 EP 1043315 A1 20001011 EP 2000-113916 19 RU 2191774 C2 20021027 RU 1997-112141 19 AT 252560 T 20031115 AT 1995-944089 19 EP 1382597 A2 20040121 EP 2003-23907 19 EP 1382597 A3 20040407 PT 800519 E 20040331 PT 1995-944089 19 ES 2208699 T3 20040616 ES 1995-944089 19 EN 269336 T 20040715 AT 2000-113829 19 CN 1626534 A 20050615 CN 2004-10074078 19 NO 9702591 A 19970814 NO 1997-2591 19 NO 310617 B1 20010730 AU 762398 B2 20030626 AU 2000-3550 20 NO 312098 B1 19970814 NO 2000-3550 20 NO 2000003550 A 19970814 NO 2000-3552 20	DATE
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WO 9619458 A3 19961212 AU 9645977 A 19960710 AU 1996-45977 19 AU 717251 B2 20000323 EP 800519 A1 19971015 EP 1995-944089 19 EP 800519 B1 20031022 CN 1175247 A 19980304 CN 1995-197702 19 CN 1172917 C 20041027 ER 9510486 A 19980602 ER 1995-10486 19 JP 10510840 T 19981020 JP 1996-519861 19 HU 78117 A2 19991129 HU 1997-2305 19 EP 1041071 A1 20001004 EP 2000-113914 19 EP 1041066 A1 20001004 EP 2000-113915 19 EP 1043325 A1 20001011 EP 2000-113829 19 EP 1043325 B1 20040616 EP 1043326 A1 20001011 EP 2000-113830 19 EP 1043315 A1 20001011 EP 2000-113810 19 RU 2191774 C2 20021027 RU 1997-112141 19 AT 252560 T 20031115 AT 1995-944089 19 EP 1382597 A2 20040407 PT 800519 E 2004031 PT 1995-944089 19 ES 2208699 T3 20040616 ES 1995-944089 19 ES 2208699 T3 20040616 ES 1995-944089 19 AT 269336 T 20040715 AT 2000-113829 19 CN 1626534 A 20050615 CN 2004-10074078 19 NO 9702591 A 19970814 NO 1997-2591 19 NO 310617 B1 20010730 AU 762398 B2 20030626 AU 2000-3550 20 NO 312098 B1 19970814 NO 2000-3550 20 NO 2000003550 A 19970814 NO 2000-3552 20	19951213
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NO 313049 B1 20020814	
AU 2003248406 A1 20031106 AU 2003-248406 20	20030926
JP 2007217418 A 20070830 JP 2007-48504 20	20070228

Abstract

Non-steroidal compds, represented by formula [I: R3 = H, C1-4 alkyl or perfluoroalkyl, CH2OH, aryl, heteroaryl, or (un)substituted allyl, arylmethyl, alkynyl, or alkenyl; R4 = H, F, Cl, Br, iodo, NO2, CO2H, CO2R2, COR2, cyano, CP3, CH2OH, C1-4 alkyl, perfluoroalkyl, OR2, SR2, SOR2, SO2R2, SO3H, S(NR2R7)R2, S(O)(NR2R7)R2, NR2R7, aryl, heteroaryl, etc., wherein R2 = H, C1-4 alkyl or perfluoroalkyl, aryl, heteroaryl, or (un)substituted allyl, arylmethyl, alkynyl, or alkenyl; R7 = H, C1-4 alkyl or perfluoroalkyl, aryl, heteroaryl, or (un)substituted allyl, arylmethyl, alkynyl, or alkenyl; R7 = H, C1-4 alkyl or perfluoroalkyl, aryl, heteroaryl, or (un)substituted allyl, arylmethyl, alkynyl, or alkenyl; R7 = H, C1-6 alkyl or perfluoroalkyl, aryl, heteroaryl, or (un)substituted allyl, arylmethyl, alkynyl, or alkenyl; R7 = N, C2 = R, C2 = R,

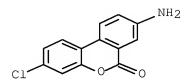
Hit Structure

CAS Registry Number 56825-78-6 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3-chloro-8-nitro- (CA INDEX NAME)

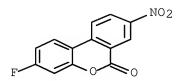
CAS Registry Number 56825-81-1 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 8-amino-3-chloro- (CA INDEX NAME)



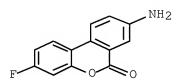
CAS Registry Number 179898-13-6 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3-fluoro-8-nitro- (CA INDEX NAME)



CAS Registry Number 179898-14-7 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 8-amino-3-fluoro- (CA INDEX NAME)



OS.CITING REF COUNT: 31 THERE ARE 31 CAPLUS RECORDS THAT CITE THIS RECORD (53 CITINGS)

, L8 ANSWER 40 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1997:269868 CAPLUS Full-text Document Number 126:341 062

Title

Chemical and biological investigations of the constitutive phenolics of two Egyptian folk-medicinal plants; a novel phenolic from the galls of Tamarix aphylla

Author/Inventor Barakat, Heba H.; Nada, Somaia A.

Patent Assignee/Corporate Source
Dept. of Tanning Materials & Proteins, National Research Center, Cairo, Egypt Source

Natural Product Sciences (1996), 2(2), 96-101 CODEN: NPSCFB; ISSN: 1226-3907

Document Type Journal

Language English

English
Abstract
A new natural product, 3.4.8-trihydroxybenzopyranopyran-6,9-dione was isolated from the aqueous ethanolic gall extract of Tamarix aphylla (Tamaricaceae) along with the known phenolics, monodecarboxyellagic acid and brevifolin carboxylic acid as well. The structures have been established by ESI-MS, 1H and 13C NMR spectral anal. Antiinflammatory, antipyretic and ulcerogenic activities determination for both plants (Tamarix aphylla and Phragmites australis) were carried out on aqueous ethanolic of exts.

Hit Structure

CAS Registry Number 91485-02-8 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,4,8,9,10-pentahydroxy- (CA INDEX NAME)

OS.CITING REF COUNT:

THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

, L8 ANSWER 41 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1997:26038 CAPLUS <u>Full-text</u>

Document Number

126:74678

Title

Preparation of ellagic acid analogs for prevention of C-type hepatitis

Author/Inventor

Ikeda, Makoto; Sakai, Takashi; Tsuai, Suaochiin; Zuao, Iyuin; Ryan, Hon; Iyan, Shuei; Kai, Yasunobu; Kako, Yumiko; Tsukada, Itaru; Yanagisawa, Manabu

Patent Assignee/Corporate Source
Eisai Co., Ltd., Japan; Beijing Medical University; Eisai Co Ltd; Beijing Medeikaru Univ. Source

Jpn. Kokai Tokkyo Koho, 34 pp. CODEN: JKXXAF

Document Type Patent

Language

Japanese

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08268890	A	19961015	JP 1995-75476	19950331
JP 3786447	B2	20060614		
CN 1137895	A	19961218	CN 1996-102899	19960326
CN 1147298	С	20040428		

Title compds. I [R1-R6 = H, MeO2C, OQ, NO2, COOH, NH2, (un)substituted carbamoyt; Q = H, alkyl] are prepared. Thus, 2-(diethylcarbamoyt)-2',4.4"-trimethoxybiphenyl (preparation given) was treated with BBr3 in CH2Cl2 overnight to give, after treatment with aqueous HCl, 37% the title compound 3,8-dihydroxy-6H-dibenzo(b,d]pyran-6-one. In an in vitro study, this showed an internal ribosome entry site-hepatitis C virus selectivity of 45%. Hit Structure

CAS Registry Number 1143-70-0 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-dihydroxy- (CA INDEX NAME)

CAS Registry Number 131086-98-1 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,4,8,9-tetrahydroxy- (CA INDEX NAME)

OS.CITING REF COUNT:

11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS RECORD (12 CITINGS)

. L8 ANSWER 42 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1996:539409 CAPLUS <u>FidMext</u>

Document Number

125:190600

Tannins and related compounds from Terminalia arborea

Author/Inventor

Lin, Ta-Chen; Hsu, Feng-Lin
Patent Assignee/Corporate Source
Department of Pharmacy, Tajen Pharmaceutical College, Pingtung, Taiwan

Chinese Pharmaceutical Journal (Taipei) (1996), 48(2), 167-175 CODEN: CPHJEP

Document Type

Source

Language English

. Twenty four hydrolyzable tannins and related compds. were isolated and identified from the fruits of T. arborea. These compds. included 3 phenolcarboxylic acids: decarboxyellagic acid, gallic acid and chebulic acid; 8 galloyl glucosides: 1-O-galloyi-P-D-glucose, 3-O-galloyi-D-glucose, 6-O-galloyi-D-glucose, 1,6-di-O-galloyi-P-D-glucose, 3,6-di-O-galloyi-D-glucose, 2,3-di-O-galloyi-D-glucose, 2

Hit Structure

CAS Registry Number 91485-02-8 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,4,8,9,10-pentahydroxy- (CA INDEX NAME)

OS.CITING REF COUNT:

THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)

, L8 ANSWER 43 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1996:494197 CAPLUS Full-text

Document Number

125:142697

Preparation of quinolines and fused quinolines as steroid receptor modulators

Author/Inventor
Jones, Todd K.; Goldman, Mark E.; Pooley, Charlotte L. F.; Winn, David T.; Edwards, James E.; West, Sarah J.; Tegley, Christopher M.; Zhi, Lin; Hamann, Lawrence G.; et al. Patent Assignee/Corporate Source
Ligand Pharmaceuticals Incorporated, USA

Source

PCT Int. Appl., 403 pp. CODEN: PIXXD2 Document Type Patent

Language English Patent Information

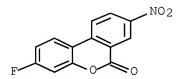
Information					
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
WO 9619458	A2	19960627	WO 1995-US16096	19951213	
WO 9619458	А3	19961212			
US 5688808	A	19971118	US 1995-463231	19950605	
US 5688810	A	19971118	US 1995-464541	19950605	
US 5693646	A	19971202	US 1995-464360	19950605	
US 5693647	A	19971202	US 1995-464546	19950605	
US 5696130	A	19971209	US 1995-462643	19950605	
US 5696127	A	19971209	US 1995-465429	19950605	
US 5696133	A	19971209	US 1995-465556	19950605	
AU 9645977	A	19960710	AU 1996-45977	19951213	
AU 717251	B 2	20000323			
EP 800519	A1	19971015	EP 1995-944089	19951213	
EP 800519	В1	20031022			
BR 9510486	A	19980602	BR 1995-10486	19951213	
JP 10510840	T	19981020	JP 1996-519861	19951213	
HU 78121	A2	19991228	HU 1999-1914	19951213	
RU 2191774	C2	20021027	RU 1997-112141	19951213	
AT 252560	T	20031115	AT 1995-944089	19951213	
NO 9702591	A	19970814	NO 1997-2591	19970606	
NO 310617	В1	20010730			
AU 762398	B2	20030626	AU 2000-27761	20000414	
NO 2000003534	A	19970814	NO 2000-3534	20000707	
NO 312162	В1	20020402			
NO 2000003550	A	19970814	NO 2000-3550	20000710	
NO 312098	В1	19970814	NO 2000-3551	20000710	
NO 2000003551	А	19970814			
NO 2000003552	A	19970814	NO 2000-3552	20000710	
NO 313049	В1	20020814			
AU 2003248406	A1	20031106	AU 2003-248406	20030926	

Austract

Nonsteroidal compds., i.e., quinolines, indeno[2,1-f]quinolines, berzo[b]furano[3,2-g]quinolines, indeno[1,2-g]quinolines, indolo[3,2-g]quinolines, indolo[2,3-f]quinolines, commarino[3,4-f]quinolines, pyrano[3,2-g]quinolines, isocumarino[4,3-g]quinolines, isocumarino[4,3-g]quinolines, pyridono[5,6-g]quinolines and related compds., which are high affirity, high selectivity modulators for steroid receptors, were prepared E.g., reaction of 5.59 mmol 4-(1,2,3-thiadiazoly)]aniline and acetone (70 mL), catalyzed by 12, gave 18% 1,2-dihydro-2,2,4-trimethyl-6-(1,2,3-thiadiazoly)-5-yf)quinoline. Agonist, antagonist, and binding activity of these compds. Hit Structure

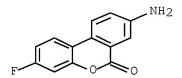
CAS Registry Number 179898-13-6 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3-fluoro-8-nitro- (CA INDEX NAME)



CAS Registry Number 179898-14-7 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 8-amino-3-fluoro- (CA INDEX NAME)



OS.CITING REF COUNT:

THERE ARE 47 CAPLUS RECORDS THAT CITE THIS RECORD (62 CITINGS) 47

L8 ANSWER 44 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number 1996:452325 CAPLUS <u>Full-text</u>

Document Number 125:96222

Title

Tissue-compatible implants with immobilized hydrophilic polymers and their preparation

Tissue-comparate impeans which introduced the Author/Inventor
Author/Inventor
Keller, Ruprecht; Baumann, Hanno; Erdtmann, Martin; Jahnke, Klaus; Held, Michael
Patent Assignee/Corporate Source
Germany

Ger. Offen., 12 pp. CODEN: GWXXBX

Document Type Patent

Information							
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
	DE 444445	A1	19960620	DE 1994-444445	19941214		
	DE 4444445	C2	19980702				

Abstract

Soft- and hard-tissue implants made of synthetic polymers or biopolymers are rendered biocompatible by chemical immobilizing hydrophilic polymers, especially polysaccharides and proteoglycans on their surfaces. Thus, a cellulose membrane was swollen in 4M NaOH, tosylated, and condensed with diaminododecane and 4-azido-1-fluoro-2-nitrobenzene for immobilization of a polysaccharide. Hit Structure

CAS Registry Number 476-67-5 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-1-carboxylic acid, 3,4,8,9,10-pentahydroxy-6-oxo-(CA INDEX NAME)

CAS Registry Number 476-67-5 CAPLUS

Chemical or Trade Name

 $\begin{array}{lll} & \texttt{GH-Dibenzo[b,d]pyran-1-carboxylic} & \texttt{acid, 3,4,8,9,10-pentahydroxy-6-oxo-(CA INDEX NAME)} \end{array}$

OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

```
L8 ANSWER 45 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN
Accession Number
1996:101767 CAPLUS <u>Full-text</u>
Document Number
124:169099
 Title
          Novel inhibitors of 3-phosphoglycerate kinase
 Author/Inventor
Author/Inventor
Hickey, Michael J.; Coutts, Ian G. C.; Tsang-Tan, Leon Lee; Pogson, Christopher I.
Patent Assignee/Corporate Source
Dep. of Chemistry & Physics, The Nottingham Trent Univ., Nottingham, NG11 8NS, UK
 Source
          Biochemical Society Transactions (1995), 23(4), 607S CODEN: BCSTB5; ISSN: 0300-5127
Document Type
Journal
Language
English
          The present study is based on a preliminary observation that an alkaline solution of gallic acid (3.4,5-trihydroxybenzoic acid), subjected to aerial oxidation markedly inhibited the 3-phosphoglycerate kinase (PGK). Inhibition of PGK (from human erythrocytes) was measured luminometrically in the direction of ATP synthesis.
 Hit Structure
          CAS Registry Number
1143-70-0 CAPLUS
          Chemical or Trade Name
6H-Dibenzo[b,d]pyran-6-one, 3,8-dihydroxy- (CA INDEX NAME)
                                                                              ОН
           CAS Registry Number
131086-98-1 CAPLUS
          Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,4,8,9-tetrahydroxy- (CA INDEX NAME)
                                                              OH
                                                                               ОН
                                                             THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
          OS.CITING REF COUNT:
                                                  1
. L8 ANSWER 46 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN
Accession Number
1995:653590 CAPLUS <u>Full-text</u>
 Document Number
          123:93006
          Interaction of shilajit with biogenic free radicals
 Author/Inventor
          Ghosal, Shibnath; Lata, Soumya; Kumar, Yatendra; Gaur, Bhartendu; Misra, Nira
Patent Assignee/Corporate Source
Dep. Pharm., Banaras Hindu Univ., Varanasi, 221 005, India
 Source
          Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1995), 34B(7), 596-602 CODEN: IJSBDB; ISSN: 0376-4699
 Document Type
Language
English
```

Processed shilajit (PS), consisting of resonance stabilized soft-spin semiquinone free radicals, has been shown to produce free radical scavenging and antioxidant effects against SO3- and OH radicals and the paramagnetic nitric oxide (NO) depending on the concentration of PS. Agents that can regulate uncontrolled production and function of such biogenic free radicals would conceivably provide cellular protection and revitalization to recipients. The results obtained in this study offer a suitable rationale for the rasayan (revitalizer) effects of shilajit as claimed in Ayurveda.

Hit Structure

```
CAS Registry Number 165393-07-7 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-dihydroxy-9-nitroso- (CA INDEX NAME)
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CAS Registry Number 165393-09-9 CAPLUS

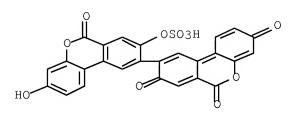
Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3-hydroxy-8-(sulfooxy)- (CA INDEX NAME)

CAS Registry Number 165393-10-2 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-9-sulfonic acid, 3,8-dihydroxy-6-oxo- (CA INDEX NAME)

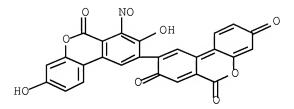
CAS Registry Number 165393-11-3 CAPLUS

Chemical or Trade Name
[9,9'-Bi-6H-dibenzo[b,d]pyran]-3,6,6',8-tetrone,
3,8-dihydro-3'-hydroxy-8'-(sulfooxy)- (CA INDEX NAME)



CAS Registry Number 165393-12-4 CAPLUS

Chemical or Trade Name
[9,9'-Bi-6H-dibenzo[b,d]pyran]-3,6,6',8-tetrone,
3',8'-dihydroxy-7'-nitroso- (CA INDEX NAME)



OS.CITING REF COUNT: THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)

L8 ANSWER 47 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number

1995:653589 CAPLUS Fuil-text

Document Number 123:93005

Title

Free radicals of shilajit humus

Author/Inventors of shight numus

Author/Inventors of shiparth, Lata, Soumya; Kumar, Yatendra

Patent Assignee/Corporate Source

Dep. Pharm., Banaras Hindu Univ., Varanasi, 221 005, India

Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1995), 34B(7), 591-5 CODEN: IJSBDB; ISSN: 0376-4699

Document Type Journal Language English

The occurrence, structure and reactions of free radicals of shilajit humus (humic acids, HAs; fulvic acids, FAs) are reported on the basis of spectroscopic analyses, chemical transformations, and synthesis. The stability of the free radicals is ascribed to chelation with iron ions and intra-mol. donor-acceptor complex formation by condensed aromatic hemiquinone-semiquinone nuclei of ferric bidentate ligand. Such resonance-stabilized species would find ecol. niche in the mineral-rich micropores of shilight humus and would be protected from extraneous stresses for a long period of time (residence time of shilajit on mountain rocks). These soft spin free radicals acts as scavengers of nitric oxide and hydroxyl radical in solution to give ferric complexes of dibenzo-α-pyrones. They sequester free/loosely bound iron ions from cytosols. The biol. significance of these findings is indicated. Hit Structure

CAS Registry Number 1143-70-0 CAPLUS

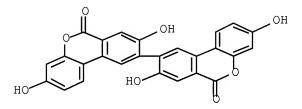
Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-dihydroxy- (CA INDEX NAME)

CAS Registry Number 146776-30-9 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 2,3,8,9-tetrahydroxy- (CA INDEX NAME)

CAS Registry Number 148351-83-1 CAPLUS

Chemical or Trade Name [9,9'-Bi-6H-dibenzo[b,d]pyran]-6,6'-dione, 3,3',8,8'-tetrahydroxy- (CA INDEX NAME)



CAS Registry Number 148351-83-1 CAPLUS

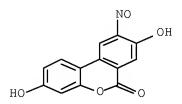
Chemical or Trade Name [9,9'-Bi-6H-dibenzo[b,d]pyran]-6,6'-dione, 3,3',8,8'-tetrahydroxy- (CA INDEX NAME)

CAS Registry Number 165393-06-6 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8,9-trihydroxy- (CA INDEX NAME)

CAS Registry Number 165393-07-7 CAPLUS

Chemical or Trade Name
6H-Dibenzo[b,d]pyran-6-one, 3,8-dihydroxy-9-nitroso- (CA INDEX NAME)



RL: SPN (Synthetic preparation); PREP (Preparation)
(occurrence, structure and reactions of free radicals of shilajit humus
OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD
(4 CITINGS)

L8 ANSWER 48 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1995.616231 CAPLUS <u>F或护理机</u>
Document Number 123:74412

Title

Shilajit induced morphometric and functional changes in mouse peritoneal macrophages

Author/Inventor
Ghosal, Shibnath; Baumik, Sraboni; Chattopadhyay, Sukumar

Patent Assignee/Corporate Source
Department of Pharmaceutics, Banaras Hindu University, Varanasi, 221005, India

Department of Pharmaceurics, banaras Filhou University, Varianasi, 221005, India Source
Phytotherapy Research (1995), 9(3), 194-8 CODEN: PHYREH; ISSN: 0951-418X Document Type

Journal Language English

Abstract
The dose- and time-dependent effects of processed Shilajit (SJP) on morphometric and functional changes of mouse peritoneal macrophages were evaluated. Several dynamic aspects of cellular modulations were observed in response to SJP treatment (0.025-900 mcg per mouse, i.p.) for different periods of time (0 min to several hours). A plausible mechanism of drug-receptor interactions, involving different types of transition states, is postulated. Dose and time dependent bond formation-deformation in the complex transitions were reflected in the morphometric and functional manifestations of the adherent cells. These findings suggest the necessity of carefully determining the dose and period of administration of Shilajit even when accepted as a panacea.

Hit Structure

CAS Registry Number 148351-84-2 CAPLUS

Chemical or Trade Name [9,9'-Bi-6H-dibenzo[b,d]pyran]-3,6,6',8-tetrone, 3',8'-dihydroxy- (CA INDEX NAME)

OS.CITING REF COUNT: THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS) L8 ANSWER 49 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1995:462833 CAPLUS <u>Fuli-text</u>
Document Number 122:302967

Title

Electrophotographic photoreceptor containing bisazo compound carrier-generating agent

Author/Inventor
Hai, Genko; Fujimoto, Shingo

Patent Assignee/Corporate Source Konishiroku Photo Ind, Japan

Source

Jpn. Kokai Tokkyo Koho, 21 pp. CODEN: JKXXAF Document Type Patent

Language

Japanese Patent Information

"	il normation						
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
	JP 07013373	A	19950117	JP 1993-157243	19930628		
	JP 3151693	B2	20010403				

Abstract

The photoreceptor consists of a conductive substrate coated with a layer containing an unsym. bisazo compound I [R1, R4 = alkyl, aryl; R2, R5 = H, cyano, amido, ester, acyl; R3, R6 = H, lower alkyl, lower alkoxy, halo, cyano, nitro; A = (substituted) aromatic hydrocarbon ring or heterocycle divalent group]. The photoreceptor shows good durability in repeated uses. Hit Structure

Chemical or Trade Name Pyrido[1,2-a]benzimidazole-4-carboxylic acid, 2-[2-[3-[2-(8-chloro-4-cyano-1-hydroxy-3-methylpyrido[1,2-a]benzimidazol-2-yl)diazenyl]-6-oxo-6H-dibenzo[b,d]pyran-8-yl]diazenyl]-3-ethyl-1-hydroxy-9-nitro-, methyl ester (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

CAS Registry Number 162964-60-5 CAPLUS

Chemical or Trade Name
Pyrido[1,2-a]benzimidazole-4-carboxylic acid,
2-[2-[8-[2-(8-chloro-4-cyano-1-hydroxy-3-methylpyrido[1,2-a]benzimidazol-2-yl)diazenyl]-6-oxo-6H-dibenzo[b,d]pyran-3-yl]diazenyl]-3-ethyl-1-hydroxy-9-nitro-, methyl ester (CA INDEX NAME)

PAGE 1-B

_L8_ANSWER 50 OF 165_CAPLUS_COPYRIGHT 2011 ACS on STN Accession Number 1995:285571 CAPLUS <u>Fub:text</u> Document Number 122:67927

Title

Organic electroluminescent devices
Author/Inventor
Shibata, Toyoko; Suzuki, Shinichi; Takeuchi, Shigeki
Patent Assignee/Corporate Source
Konishiroku Photo Ind, Japan

Source
Jpn. Kokai Tokkyo Koho, 15 pp. CODEN: JKXXAF
Document Type
Patent
Language
Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	l
JP 06122874	A	19940506	JP 1993-209660	19930824	l

Abstract

The devices contain electron-transporting and phosphor layers of I or II. In I, R1 = (substituted) Ph, biphenyl, benzyl, alkyl, alkoxy; and R2,3 = (substituted) alkyl, alkoxy, aralkyl, aryl, alkyl amine, halo-alkyl, H, halo, NO2, CN, heterocyclic. In II, R1,2 are the same as R2,3 in I.

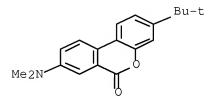
Hit Structure

CAS Registry Number 160108-46-3 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-bis(dimethylamino)- (CA INDEX NAME)

CAS Registry Number 160108-47-4 CAPLUS

Chemical or Trade Name 68-Dibenzo[b,d]pyran-6-one, 8-(dimethylamino)-3-(1,1-dimethylethyl)- (CA INDEX NAME)



OS.CITING REF COUNT: THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L8 ANSWER 51 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN

1994:616952 CAPLUS Fuil-text

Document Number 121:216952

Title

Photophysical properties and laser characteristics of a new rigid aminocoumarin dye lasing in the blue-green region

Author/Inventor Raju, B. Bangar; Varadarajan, T. S.

Institute fuer Physikalische Chemie, Universitaet Wien, Wien, A-1090, Austria

Applied Physics B: Lasers and Optics (1994), B59(1), 83-6 CODEN: APBOEM; ISSN: 0946-2171

Document Type Journal

Language English

Abstract

The photophys, properties of a new dye, 7-diethylaminocoumarin with a rigid substitution in the 3-position (referred to as DARC) have been studied in three solvents: dioxane, DMF and DMSO. The dye has been found to have a fluorescence quantum efficiency (\(\psi \) between 0.40 and 0.80 in these solvents. The dye-laser performance of this dye has also been investigated in dioxane; DMF and DMSO, under nitrogen-laser pumping and compared with that of the com. available standard laser dye, Coumarin 515 (C-515). A tuning range of nearly 70 nm was obtained in the blue-green region with an efficiency up to 80% of that of the standard dye. The observed characteristics of the dye are explained in terms of the structural rigidization of the dye in the 3-position which inhibits the formation of the Twisted Intramot. Charge Transfer (TICT) conformation in the excited state leading to an enhancement of the \(\psi \) land a considerable improvement in the laser performance.

Hit Structure

CAS Registry Number 158146-16-8 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-8,10-dicarboxylic acid, 3-(diethylamino)-9-hydroxy-6-oxo-, 8,10-diethyl ester (CA INDEX NAME)

L8 ANSWER 52 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number 1994:591277 CAPLUS Full-text

Document Number

121:191277

Electrophotographic photoreceptors using novel azo-type carrier-generating agent

Author/Inventor

Fujimoto, Shingo; Shibata, Toyoko; Hai, Genko Patent Assignee/Corporate Source Konishiroku Photo Ind, Japan

Source

Jpn. Kokai Tokkyo Koho, 13 pp. CODEN: JKXXAF Document Type Patent

Language
Japanese
Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
JP 06110234	A	19940422	JP 1992-260372	19920929		

...
The photoreceptors comprise a conductive support with a coating of a photosensitive layer containing an azo compound of a structure in which an organic residue I [X = (substituted) N-containing heterocycle; R1 = lower alkyl, aryl; R2 = CN, CONNR3, CO2R4 (R3, R4 = lower alkyl)] binds to a (substituted) aromatic hydrocarbon ring or heterocycle directly or through a binding group. The photoreceptors show high photosensitivity, low residual potential, and good durability in repeated use. Thus, an AI vapor-deposited polyester film with an interlayer was coated with a carrier-generating layer containing II and with a carrier-transporting layer containing a stilbene compound to give a photoreceptor.

Hit Structure

CAS Registry Number 157759-94-9 CAPLUS

Chemical or Trade Name
Pyrido[1,2-e]purine-6-carbonitrile,
8,8'-[(6-oxo-6H-dibenzo[b,d]pyran-3,8-diyl)bis(azo)]bis[9-hydroxy-7-methyl-(9CI) (CA INDEX NAME)

L8 ANSWER 53 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number 1994:495968 CAPLUS <u>Full-text</u>

Document Number 121:95968

Title

Preparation of azo dyes and electrophotographic photoreceptors using them as carrier-generating agents

Author/Inventor

Fujimoto, Shingo; Shibata, Toyoko

Patent Assignee/Corporate Source Konishiroku Photo Ind, Japan

Source

Jpn. Kokai Tokkyo Koho, 14 pp. CODEN: JKXXAF

Document Type Patent

Language

Japanese Patent Information

PATENT NO. KIND DATE APPLICATION NO. DATE JP 06011869 19940121 JP 1992-169295 19920626

The photoreceptors comprise a conductive support with a coating of a photosensitive layer containing an azo compound having a structure in which a (un)substituted aromatic or heteroarom, ring combines to an organic group I[R1 = (un)substituted lower alky, (un)substituted anyl, ester group; R2 = H, halo, lower alkyl, Hit Structure

CAS Registry Number 156810-48-9 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-bis[2-(4-hydroxy-2-methylpyrimido[1,2-a]benzimidazol-3-yl]diazenyl]- (CA INDEX NAME)

. L8 ANSWER 54 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1994:483226 CAPLUS Fibi-fiext

Document Number

121:83226

Title

Unusual ring transformations: reaction of phenyl 7-fluoro-4-chromone-3-sulfonate with methyl 3-oxopentanoate in the presence of ammonium acetate

Author/Inventor Loewe, Werner; Schott, Susan

Patent Assignee/Corporate Source Inst. Pharm., Freie Univ. Berlin, Berlin, D-14195, Germany

Source

Journal of Heterocyclic Chemistry (1994), 31(2), 405-17 CODEN: JHTCAD; ISSN: 0022-152X

Document Type Journal

Language English

Abstract
The novel benzoxathiinopyridines I (R = CH2CO2Me, R1 = Me; R = Et, R1 = CO2Me), the hitherto unknown dibenzopyrone II and the heterocyclic enaminone III were synthesized by ring transformations of Ph 7-fluoro-4-chromone-3-sulfonate (1) with Me 3-oxopentanoate (2) in the presence of NH4OAc (3). The structures of I-III were determined by spectroscopic methods and the reaction pathways of formation for these compds. are discussed.

Hit Structure

CAS Registry Number 156246-55-8 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-10-sulfonic acid, 7-amino-3-fluoro-8-methyl-6-oxo-, phenyl ester (CA INDEX NAME)

L8 ANSWER 55 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1994:478386 CAPLUS Full-text

Document Number

121:78386

NMR spectra analysis of polyphenols from Punica granatum

Author/Inventor Nawwar, Mahmoud A. M.; Hussein, Sahar A. M. Patent Assignee/Corporate Source National Research Center, Cairo, Egypt

Phytochemistry (1994), 36(3), 793-798 CODEN: PYTCAS; ISSN: 0031-9422

Document Type Journal

Language English

Abstract

The vifolin carboxylic acid, brevifolin, corilagin, 3,6-(R)-hexahydroxydiphenoyl-(α/β)-1C4-glucopyranose, 1,2,6-tri-O-galloyl-β-4C1-glucopyranose, 1,4,6-tri-O-galloyl-β-4C1-glucopyranose, ellagic acid, 3,4,8,9,10-pentahydroxydibenzo[b,d]pyran-6-one, granatin-B and punicatolin were isolated from the leaves of Punica granatum. 1H and 13C NMR spectra of brevifolin carboxylic acid and brevifolin have been recorded and assigned for the first time. A new interpretation of the NMR data or related compds. is discussed. The structure of the new natural polyphenol-1,2,3-tri-O-galloyl-β-4C1-glucopyranose has been established. Hit Structure

CAS Registry Number 91485-02-8 CAPLUS

Chemical or Trade Name
6H-Dibenzo[b,d]pyran-6-one, 3,4,8,9,10-pentahydroxy- (CA INDEX NAME)

THERE ARE 57 CAPLUS RECORDS THAT CITE THIS RECORD (57 CITINGS) OS.CITING REF COUNT:

L8 ANSWER 56 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1994:469506 CAPLUS Full text

Document Number

121:69506

Title

Electrophotographic photoreceptors using novel azo compound carrier-generating agent

Author/Inventor Fujimoto, Shingo; Shibata, Toyoko Patent Assignee/Corporate Source Konishiroku Photo Ind, Japan

Source

Jpn. Kokai Tokkyo Koho, 15 pp. CODEN: JKXXAF

Document Type Patent

Language

Japanese Patent Information

••	PATENT NO. KIND DATE APPLICATION NO. DATE				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 06043676	A	19940218	JP 1992-197154	19920723

The photoreceptors comprise a conductive support with a coating of a photosensitive layer containing an azo compound in which an organic residue I [X = O, S, NH, NR1 [R1 = (substituted) lower alkyl, lower alkyl, lower alkoxy, NO2, CN; n = 1, 2] combines directly or via a binding group to an aromatic hydrocarbon ring or aromatic heterocycle which may be substituted. The photoreceptors show high photosensitivity, low residual potential, and good durability in repeated use. Thus, an AI vapor-deposited polyester film with an interlayer was coated with a carrier-generating layer containing II and with a carrier-transporting layer containing I and with a carrier-transporting layer containing I are the photoreceptor.

Hit Structure

Chemical or Trade Name 2H-Pyrimido[2,1-b]benzothiazole-2,4(3H)-dione, 3,3'-[(6-oxo-6H-dibenzo[b,d]pyran-3,8-diyl)bis(azo)]bis- (9CI) (CA INDEX

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L8 ANSWER 57 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN
Accession Number
1994:457315 CAPLUS <u>Fuli-text</u>
Document Number
        121:57315
Title
        Identification of Tricyclic Analogs Related to Ellagic Acid as Potent/Selective Tyrosine Protein Kinase Inhibitors
Author/Inventor
        Dow. Robert L.: Chou. Thomas T.: Bechle, Bruce M.: Goddard, Colin; Larson, Eric R.
Patent Assignee/Corporate Source
Central Research Division, Pfizer Inc., Groton, CT, 06340, USA
Source
        Journal of Medicinal Chemistry (1994), 37(14), 2224-31 CODEN: JMCMAR; ISSN: 0022-2623
```

Document Type Journal

Language

English

Iteraphenolic phenanthridinone and carbazole derivs. I and II [R1, R2 = H, OH; R3 = H, Et; CH2Ph, CH2C6H4R-4, CH2C6H3Cl2-3,4, COC6H4r-4, SO2C6H4R-4, 3-pyridylmethyl, (CH2)3Ph, etc.; R = H, NO2, SO2Ph, CN, CF3, Br, Ph, CMe3, SO2Me; R4 = H, Bt] related to ellagic acid were prepared and tested for enhanced specificity for inhibition of the tyrosine-specific protein kinase pp60src over other protein kinases. These ring systems were prepared via a general sequence of biaryl bond formation followed by cyclization to form the desired tricyclic ingle systems. N-Alkylation, acylation, or sulfonylation and deprotection with BB3 afforded I and II. Several analogs I and II have potencies comparable to that of ellagic acid and exhibit substantially enhanced selectivities for inhibition of pp60src relative to protein kinases A (PKA), a serine/threorine protein kinases. Carbazole-based analogs II (R1 = OH, R2 = H, R3 = CH2C6H4CN-4, CH2C6H3Cl2-2,6, CH2C6H4SO2Ph) are submicromolar inhibitors of pp60src, with potency for the target tyrosine kinase comparable to that of ellagic acid, however with 2 orders of magnitude greater selectivity vs. that for PKA. As seen for ellagic acid, members of the phenanthridon-based series, e.g. I (R1 = R3 = H, R2 = OH), exhibited inhibition of pp60src in a manner which is partial mixed noncompetitive with respect to ATP, while carbazole analogs, e.g. II (R1 = R3 = R4 = H, R2 = OH), inhibit pp60src in an ATP competitive manner.

Hit Stn

CAS Registry Number 131086-98-1 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,4,8,9-tetrahydroxy- (CA INDEX NAME)

THERE ARE 25 CAPLUS RECORDS THAT CITE THIS RECORD (26 CITINGS) OS.CITING REF COUNT:

L8 ANSWER 58 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number 1994:204590 CAPLUS <u>Full-text</u>

Document Number

120:204590

Electrophotographic photoreceptors using asymmetric bisazo compound as carrier-generating agent Author/Invento

Auinor/inventor
Fujimoto, Shingo; Shibata, Toyoko
Patent Assignee/Corporate Source
Konishiroku Photo Ind, Japan

Source Jpn. Kokai Tokkyo Koho, 20 pp. CODEN: JKXXAF

Patent

Language Japanese

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05232723	A	19930910	JP 1992-32151	19920219

The photoreceptors comprise a conductive support with a coating of a photosensitive layer containing a bisazo compound R1N:NZN:NR2 [R1 = I (R3 = (substituted) aromatic hydrocarbyl or heterocyclyl; X = residue condensed with the benzene ring to form an aromatic hydrocarbyl or heterocyclyl. R2 = II (R4 = lower alkyl; R5, R6 = H, halo, lower alkyl, lower alkoxyl); Z = divalent (substituted) aromatic hydrocarbyl or heterocyclyl which links directly or through a binding group]. The photoreceptors show high photosensitivity, low residuate potential, and fundibility in repeated use. Thus, an Al-deposited polyester film with an interlayer was coated with a carrier-generating layer containing III and with a carrier-transporting layer containing a stilbene compound to give a photoreceptor.

Hit Structure

CAS Registry Number 153801-44-6 CAPLUS

Chemical or Trade Name 2-Naphthalenecarboxamide, 4-[2-[8-[2-(4-cyano-1-hydroxy-3-methylpyrido[1,2-a]benzimidazol-2-yl)diazenyl]-6-oxo-6H-dibenzo[b,d]pyran-3-yl]diazenyl]-3-hydroxy-N-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)

CAS Registry Number 153801-45-7 CAPLUS

Chemical or Trade Name 2-Naphthalenecarboxamide, 4-[2-[3-[2-(4-cyano-1-hydroxy-3-methylpyrido[1,2-a]benzimidazol-2-yl)diazenyl]-6-oxo-6H-dibenzo[b,d]pyran-8-yl]diazenyl]-3-hydroxy-N-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)

THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS) OS.CITING REF COUNT:

L8 ANSWER 59 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1994;90810 CAPLUS Fix boxt

Document Number 120:90810

Title

Electrophotographic photoreceptors using specific Schiff base as charge-generating agent

Author/Inventor
Fujimoto, Shingo; Shibata, Toyoko

Patent Assignee/Corporate Source Konishiroku Photo Ind, Japan

Jpn. Kokai Tokkyo Koho, 17 pp. CODEN: JKXXAF Document Type Patent

Language
Japanese
Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05216258	A	19930827	JP 1992-17735	19920203

Abstract

The photoreceptors comprise a conductive support with a coating of a photosensitive layer containing a Schiff base I [R1 = alkyl, Ph; R2 = CN, CO2R, CONH2, CONHR; R3, R4 = H, halo, lower alkyl, lower alkoxy, NO2, CN; R5 = (substituted) aromatic hydrocarbyl or heterocyclyl which may be bound via a linking group; n = 2-4]. The photoreceptors show high photosensitivity, low residual potential, and good durability in repeated use. Thus, an Alaminated polyester film with an interlayer was coated with a charge-generating layer containing II and a charge-transporting layer containing a stilbene compound to give a photoreceptor.

Hit Structure

CAS Registry Number 152403-58-2 CAPLUS

Chemical or Trade Name
Pyrido[1,2-a]benzimidazole-4-carboxylic acid,
2,2'-[[6-oxo-6H-dibenzo[b,d]pyran-3,8-diyl]bis[nitrilomethylidyne)]bis[1-hydroxy-3-methyl-, diethyl ester (9CI) (CA INDEX NAME)

L8 ANSWER 60 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1994:65872 CAPLUS Full-text Document Number 120:65872

Title

Electrophotographic photoreceptors using specific azo compound as carrier-generating agent

Author/Inventor
Fujimoto, Shingo; Shibata, Toyoko

Patent Assignee/Corporate Source Konishiroku Photo Ind, Japan

Source

Source
Jpn. Kokai Tokkyo Koho, 17 pp. CODEN: JKXXAF
Document Type
Patent
Language
Japanese
Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05158263	A	19930625	JP 1991-326049	19911210

Abstract

The photoreceptors comprise a conductive support with a coating of a photosensitive layer containing an azo compound having a structure in which an organic azo residue I (R1 = lower alkyl; R2 = H, halo, lower alkyl, lower alkyn, lower alkyn, in = 1, 2) is linked to a (substituted) aromatic hydrocarbon ring or heterocycle through a linking group. The photoreceptors show high photosensitivity, low residual potential, and good durability in repeated use. Thus, an Al-laminated polyester film with an interlayer was coated with a carrier-generating layer containing II and with a carrier-transporting layer containing a stilbene compound to give a photoreceptor.

Hit Structure

CAS Registry Number 152044-92-3 CAPLUS

Chemical or Trade Name

Fyrido[1,2-a]benzimidazole-3-carboxylic acid,

2,2'-[[6-oxo-6H-dibenzo[b,d]pyran-3,8-diyl)bis(azo)]bis[4-cyano-1-hydroxy-,dimethyl ester (9CI) (CA INDEX NAME)

L8 ANSWER 61 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1993:449227 CAPLUS Full-text Document Number 119:49227

Title

Preparation of indole derivatives as testosterone 5α -reductase inhibitor

Preparativi ni moto somini del Author/Inventor
Okada, Satoshi; Sawada, Kozo; Kayakiri, Natsuko; Sawada, Yuki; Tanaka, Hirokazu; Hashimoto, Masashi
Patent Assignee/Corporate Source
Fujisawa Pharmaceutical Co., Ltd., Japan

PCT Int. Appl., 104 pp. CODEN: PIXXD2 Document Type Patent

Language English Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9303012	A1	19930218	WO 1992-JP981	19920803
PD 600094	21	19940609	PD 1992_916519	19920903

Title compds. I (R1 = carboxy or protected carboxy; R2 = H, alkyl, halo; R3 = aryl, aralkyl, N-heterocyd; A = (substituted) alkenylene; Q = CO, SO2, alkylene; X = (substituted) Ph, furyl; Y = bond, alkylene; Z = bond, alkylene; alkenylene, O, S, (substituted) amine; XYZR3 = 6H-dibenzo[b,d]pyranyl) or a salt thereof, are prepared 4-indol-3-ylbutyric acid in DMF was added to NaH in DMF followed by Ph 3-(3-isobutylphenoxymethyl)benzoate (preparation given) to give title compound II. Il showed an IC50 of 1.7 + 10-9M as inhibitor of testosterone 5a-reductase.

CAS Registry Number 148254-89-1 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran, 3,4,6,6-tetramethyl-8-(2-methylpropyl)- (CA INDEX NAME)

CAS Registry Number 148254-90-4 CAPLUS

Chemical or Trade Name
6H-Dibenzo[b,d]pyran-2-carboxaldehyde,
3,4,6,6-tetramethyl-8-(2-methylpropyl)- (CA INDEX NAME)

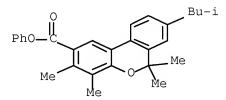
CAS Registry Number 148254-91-5 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-2-carboxylic acid, 3,4,6,6-tetramethyl-8-(2-methylpropyl)-

(CA INDEX NAME)

CAS Registry Number 148255-56-5 CAPLUS

Chemical or Trade Name



CAS Registry Number 148255-94-1 CAPLUS

Chemical or Trade Name
1H-Indole-3-butanoic acid, 1-[[3,4,6,6-tetramethyl-8-(2-methylpropyl)-6H-dibenzo[b,d]pyran-2-yl]carbonyl]- (CA INDEX NAME)

THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (14 CITINGS) OS.CITING REF COUNT:

L8 ANSWER 62 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1993;427340 CAPLUS Full-text

Document Number 119:27340

Title

Similarities in the core structures of shilajit and soil humus

Author/Inventor Ghosal, Shibnath; Lal, Jawahar; Kanth, Ravi; Kumar, Yatendra Patent Assignee/Corporate Source
Dep. Pharm., Banaras Hindu Univ., Varanasi, 221005, India

Source Soil Biology & Biochemistry (1993), 25(3), 377-81 CODEN: SBIOAH; ISSN: 0038-0717

Document Type Journal

Language English

TS Similarities in phys. and chemical characteristics of shilajit and soil humus were shown. Structural similarities of building blocks of the humus core of shilajit and two soil samples have been established by acid hydrolysis of the extracted humus (EHs; free from loosely-bound low Mr organic compds.), followed by comprehensive chromatog, (HPTLC) and spectroscopic (UV, [1H]NMR, GC, MS) analyses of the degradation products. 13C-isotopic abundance data of the core mols., as determined from their resp. (M + 1) values, in the EI MS, suggest that the origin of these mols. in shight, at least in part, predass their biol. synthesis (e.g. by plant-microbial interaction). A memory mol. (I and its hemiquinone complement, II), that exhibited appropriate chemical and biol. properties has been encountered in the core of all humus samples.

Hit Structure

CAS Registry Number 148351-83-1 CAPLUS

Chemical or Trade Name [9,9'-Bi-6H-dibenzo[b,d]pyran]-6,6'-dione, 3,3',8,8'-tetrahydroxy- (CA INDEX NAME)

148351-85-3 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-1-carboxylic acid, 3,8-dihydroxy-6-oxo- (CA INDEX NAME)

CAS Registry Number 1143-70-0 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-dihydroxy- (CA INDEX NAME)

CAS Registry Number 148351-84-2 CAPLUS

Chemical or Trade Name [9,9'-Bi-GH-dibenzo[b,d]pyran]-3,6,6',8-tetrone, 3',8'-dihydroxy- (CA INDEX NAME)

THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS) OS.CITING REF COUNT:

_L8_ANSWER 63 OF 165_CAPLUS_COPYRIGHT 2011 ACS on STN Accession Number 1993:191567_CAPLUS_<u>Full-text</u> Document Number

118:191567

Title

Title
Preparation of tricyclic polyhydroxylic tyrosine kinase inhibitors
Author/Inventor
Dow, Robert Lee
Patent Assignee/Corporate Source
Pitzer Inc., USA

Source

PCT Int. Appl., 64 pp. CODEN: PIXXD2

Document Type Patent

Language English Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9221660	A1	19921210	WO 1992-US2799	19920410
CA 2108889	A1	19921130	CA 1992-2108889	19920410
EP 586608	A1	19940316	EP 1992-917271	19920410
JP 06503095	т	19940407	JP 1992-510250	19920410
US 6194439	В1	20010227	US 1993-142284	19931123

Title compds. I (Q = Z1N, Z2C, COX wherein Z1 = H, PhCH2 C1-4 alkyl, pyridylmethyl, naphthenylcarbonyl etc.; Z2 = H, O, PhCH2, hydroxybenzyl, pyridylmethyl, quinolinylmethyl, etc.; ≥2 and ≤4 of R2-R8 = HO, the remainder being H; R9 = H, halo, such that R9 = halo when Q = Z1N), useful as tyrosine kinase inhibitors (no data), are prepared To a 0° solution of 5-(phenylmethyl)-2,3,8,9-tetramethoxy-6-(5H)- phenanthridinone in CH2Cl2 was added BBr3 to give the title compound (II).

Hit Structure

CAS Registry Number 146776-39-8 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,4,8,9-tetramethoxy- (CA INDEX NAME)

CAS Registry Number 131086-94-7 CAPLUS

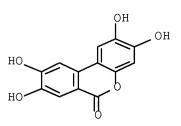
Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,4,7,8-tetrahydroxy- (CA INDEX NAME)

CAS Registry Number 131086-98-1 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,4,8,9-tetrahydroxy- (CA INDEX NAME)

CAS Registry Number 146776-30-9 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 2,3,8,9-tetrahydroxy- (CA INDEX NAME)



THERE ARE 38 CAPLUS RECORDS THAT CITE THIS RECORD (38 CITINGS) OS.CITING REF COUNT: 38

L8 ANSWER 64 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1993:183299 CAPLUS <u>Fulcters</u>
Document Number 118:183299

Title

Shilajit. XII. Effects of Shilajit and its active constituents on learning and memory in rats Author/Inventor Ghosal, S.; Lal, J.; Jaiswal, A. K.; Bhattacharya, S. K.

Patent Assignee/Corporate Source Inst. Technol., Banaras Hindu Univ., Varanasi, 221005, India

Source

Phytotherapy Research (1993), 7(1), 29-34 CODEN: PHYREH; ISSN: 0951-418X Document Type

Language English

English
Abstract

Effects of processed Shilajit (Sh-P), native Shilajit (Sh-N) (unprocessed water-soluble fraction), and a preparation consisting of a mixture of E1 acetate extractives (EE) and tulvic acids (FAs) from Sh-P, were evaluated in (i) an active avoidance, (ii) elevated plus-maze and (iii) open-field behavior paradigms in rats. This study was undertaken to determine the validity Shilajit use as an Ayurvedic medha rasayan (enhancer of learning and memory).

Sh-P and its active constituents (EE-FAs) augmented learning acquisition and memory retireval in the battery of lests designed for this purpose. Sh-N, on the other hand, produced erratic responses (both augmentative and retardative) in the above parameters. The U-shaped dose-responses shown by Sh-P and EE-FAs are reminiscent of agents that improve cognitive functions. Addinl., Sh-P and EE-FAs, in high doses (25-50 mg/kg oral), produced significant antianxiety effect in the open-field behavior test. The present and earlier findings seem to suggest that the action of Shilajit is imperative to ensure its optimum therapeutic effect. This would also prevent health risks associated with prolonged ingestion of raw Shilajit containing free radicals and fungal toxins.

Hit Structure

CAS Registry Number 1143-70-0 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-dihydroxy- (CA INDEX NAME)

OS.CITING REF COUNT:

THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD (9 CITINGS)

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L8 ANSWER 65 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN
Accession Number
1993:58331 CAPLUS <u>Fuil-text</u>
Document Number
        118:58331
Title
        Metabolism in sheep of gallic acid, tannic acid and hydrolyzable tannin from Terminalia oblongata
Author/Inventor
        Murdiati, T. B.; McSweeney, C. S.; Lowry, J. B.
Patent Assignee/Corporate Source
Grad. Sch. Trop. Vet. Sci., James Cook Univ., Townsville, Australia
Source
        Australian Journal of Agricultural Research ( 1992), 43(6), 1307-19 CODEN: AJAEA9; ISSN: 0004-9409
Document Type
Journal
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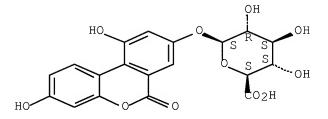
Language

English

Hydrolyzable tannin (HT) is present in a variety of tropical browse plants, some of which poison ruminants. In an attempt to clarify the toxic action, the major urinary metabolites resulting from dosing of sheep with the HT, tannic acid, its simplest and major phenolic component, gallic acid, and the HT-containing and toxic T. oblongata (yellow-wood) leaves were investigated. Phenolic metabolites were separated by HPLC and their structures investigated by proton and 13C NMR. Gallic acid was less toxic (on a weight basis) than tannic acid. Comparison of urinary metabolites from rumen and abomasal administration indicated that decarboxylation and reductive dehydroxylation of phenolics occurred principally in the rumen, and a significant proportion was totally degraded. Rumen metabolism appeared to prevent toxicity from gallic and tannic acid at dasce rates of <0.4 g/kg live weight/day. Resorcinol glucuronide and the glucuronide of 2-carboxylation and reductive development of the degradation of the metabolism flor urinary metabolites of the major product of gallic acid and probably from yellow-wood HT, and resorcinol glucuronide was the major product of gallic acid and probably from yellow-wood HT, and resorcinol grucuronide was the major product of gallic acid and probably from yellow-wood HT, and resorcinol grucuronide was the major product of gallic acid and probably from yellow-wood HT, and resorcinol grucuronide was the major product of gallic acid and probably from yellow-wood HT, and resorcinol grucuronide was the major product of gallic acid and probably from yellow-wood HT, and resorcinol grucuronide was the major product of gallic acid and probably from yellow-wood HT, and resorcinol grucuronide was the major product of gallic acid and probably from yellow-wood HT, and resorcinol grucuronide was the major product of gallic acid and probably from yellow-wood HT, and resorcinol gallic acid and probably from yellow-wood HT, and resorcinol gallic acid and probably from yellow-wood HT, and resorcinol gallic a

Hit Structure

CAS Registry Number 145459-29-6 CAPLUS Chemical or Trade Name B-D-Glucopyranosiduronic acid,
3,10-dihydroxy-6-oxo-6H-dibenzo[b,d]pyran-8-yl (CA INDEX NAME)



OS.CITING REF COUNT: 33 THERE ARE 33 CAPLUS RECORDS THAT CITE THIS RECORD (33 CITINGS)

L8 ANSWER 66 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1993:8294 CAPLUS <u>Full-text</u>

Document Number

Title

3,8-Diaminodibenzopyranone as a potential substitute for benzidine in the synthesis of direct dyes

Author/Inventor Szadowski, Jerzy Patent Assignee/Corporate Source

Inst. Barwnikow, Politech. Lodzka, Lodz, Pol.

Przemysl Chemiczny (1992), 71(10), 389-91 CODEN: PRCHAB; ISSN: 0033-2496 Document Type

Language Polish Journal

Abstract

The title compound (f) was obtained by oxidation of fluorene to fluorenone, followed by ring cleavage to obtain biphenyl-2-carboxylic acid, which was nitrated to 2',4',4-trinitrobiphenyl-2-carboxylic acid. Cyclocondensation of this acid gave 3,8-dinitrodibenzopyranone, which was reduced to give I. Diazotization and coupling of I with 8-amino-1-naphthol-3,6-disulfonic acid or 6-amino-1-naphthol-3-sulfonic acid gave direct dyes with properties similar to those of benzidine dyes.

CAS Registry Number 108525-86-6 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-diamino- (CA INDEX NAME)

CAS Registry Number 144929-32-8 CAPLUS

Chemical or Trade Name 2,7-Maphthalendedisulfonic acid, 3,3'-[(6-oxo-6H-dibenzo[b,d]pyran-3,8-diyl]bis(azo)]bis(5-amino-4-hydroxy- (9CI) (CA INDEX NAME)

CAS Registry Number 144929-33-9 CAPLUS

Chemical or Trade Name 2-Naphthalenesulfonic acid, 3,3'-[(6-oxo-6H-dibenzo[b,d]pyran-3,8-diyl)bis(aco)]bis(7-amino-4-hydroxy- (9CI) (CA INDEX NAME)

CAS Registry Number 63636-78-2 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-dinitro- (CA INDEX NAME)

L8 ANSWER 67 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1993:6829 CAPLUS <u>Full-text</u>

Document Number

118:6829

Synthesis of 6H-dibenzo[b,d]pyran-6-ones via dienone-phenol rearrangements of spiro[2,5-cyclohexadiene-1,1'(3'H)-isobenzofuran]-3'- ones

Author/Inventor
Hart, David J.; Kim, Adrienne; Krishnamurthy, Ramanarayanan; Merriman, Gregory H.; Waltos, Anne Marie
Palent Assignee/Corporate Source
Dep. Chem., Ohio State Univ., Columbus, OH, 43210, USA

Source

Tetrahedron (1992), 48(38), 8179-88 CODEN: TETRAB; ISSN: 0040-4020 Document Type Journal

Language English

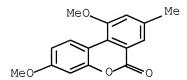
Abstract

A series of title spiro compds. I (R = R1 = H, R2 = OMe, Cl; R = R2 = H, R1 = OMe, Cl; R = Me, R1 = H, R2 = OMe) were prepared from metalated benzamides and 4,4-dimethoxycyclohexadienone. Rearrangement of these spirodienones under a variety of conditions gave substituted 6H-dibenzo[b,d]pyran-6-ones II (R3, R4 = H, OMe). Rearrangement in aqueous sulfuric acid gave products of formal O-migration while rearrangements in trituoroacetic anhydride-trifluoroacetic acid-sulfuric acid usually gave C-migration products.

Hit Structure

CAS Registry Number 144945-97-1 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,10-dimethoxy-8-methyl- (CA INDEX NAME)



OS.CITING REF COUNT:

THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)

L8 ANSWER 68 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1992:511432 CAPLUS <u>Full-text</u>

Title

Transition-metal-catalyzed annulation reactions. 2. Palladium-catalyzed activation of the carbon-hydrogen bond of methoxy groups: simple synthesis of substituted 6H-dibenzo[b,d]pyrans

Angewandte Chemie (1992), 104(8), 1079-81 (See also Angew. Chem., Int. Ed. Engl., 1992, 31(8), 1023-5) CODEN: ANCEAD; ISSN: 0044-8249 Document Type Journal

Language English

Abstract

6H-Dibenzo[b,d]pyrans, e.g. I, were prepared by Pd catalyzed activation of C-H bond of methoxy groups in methoxyiodobenzenes. Thus, o-IC6H4OMe was treated with K2CO3 Bu4NBr in DMF containing Pd(OAc)2 to give 90% I.

Hit Structure

CAS Registry Number 141957-84-8 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran, 4-(2,4-dimethoxyphenyl)-3,8,10-trimethoxy- (CA INDEX NAME)

29

OS.CITING REF COUNT:

THERE ARE 29 CAPLUS RECORDS THAT CITE THIS RECORD (29 CITINGS)

, L8 ANSWER 69 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1992:511386 CAPLUS <u>Full-text</u>

Document Number

117:111386 Title

Preparation of ellagic acid analogs as mutagen inhibitors

Author/Inventor

Josephy, Philip D.; Snieckus, Victor A.

Patent Assignee/Corporate Source University of Guelph, Can.

Source

U.S., 7 pp. CODEN: USXXAM

Document Type Patent

Language English

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5104894	A	19920414	US 1988-165471	19880308

Abstract

Title compds. (I: R1-R6 = H, OH, OR7: R7 = alkyl, (substituted) phenylalkyl), were prepared. Thus, (Me2CH)2NCOPh was stirred with sec-BuLiMgNCH2CH2NMe2 in THF at -78; after 45 min, B(OMe)3 was added and the mixture was warmed to room temperature over 12 h. The mixture was treated with 5% HCl to give 95% 24(Me2CH)2NCO|C6H4B(OH)2. The latter was coupled with 2,3,4-trimethoxybromobenzene in refluxing dimethoxyethane containing (Ph3P)4Pd and Na2CO3 to give 95% biphenyl derivative, which in CH2Cl2 at -78° was treated with BBr3 to give 77% title compound II. I effectively inhibited the mutagenic activity of benzo[a] pyrene-7,8-dihydrodiol-9,10-epoxide in the Ames test. I are also said to inhibit DNA damage induced by anticancer alkylating agents.

Hit Structure

CAS Registry Number 131086-94-7 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,4,7,8-tetrahydroxy- (CA INDEX NAME)

THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS) OS.CITING REF COUNT:

L8 ANSWER 70 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1991;679813 CAPLUS <u>Full-text</u>

Document Number

115:279813

Preparation of 6H-dibenzo[b,d]pyran-6-ones and their use as aldose reductase inhibitors

Author/Inventor

Author/invenior Nakayama, Hajime, Ishikura, Masatoshi; Ueda, Yutaka; Imai, Kunihiro; Terajima, Megumi; Suzui, Akio Patent Assignee/Corporate Source Toyo Pharmar Co., Ltd., Japan; Daiso Co., Ltd.

Source Jpn. Kokai Tokkyo Koho, 9 pp. CODEN: JKXXAF Document Type Patent

Language Japanese

Patent Information

KIND DATE APPLICATION NO. DATE PATENT NO. 19901217 JP 1989-123537 JP 02304080 19890517

Title compds. I (≥1 of R1-R8 = OSO3M, OCH2CO2M; the others = H, CI, lower alkyl, lower alkoxy; M = H, alkali metal, ammonium), useful for treatment of complications of diabetes, are prepared by sulfation or etherification of the corresponding hydroxydibenzopyranones (and optional salt formation). Refluxing 2.12 g I (R1, R2, R4-R8 = H, R3 = OH) with 2.33 g HSO3Cl in pyridine for 3 h and treatment of the resulting product with KOH in H2O gave 1.95 g I (R1, R2, R4-R8 = H, R3 = OSO3K), which inhibited aldose reductase with IC50 of 1.0 + 10-6 M. LD50 of I was ≥1 g/kg p.o. in rats.

CAS Registry Number 107100-41-4 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3-hydroxy-8,9,10-trimethoxy- (CA INDEX NAME)

126438-35-5 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3-hydroxy-8,9-dimethoxy- (CA INDEX NAME)

CAS Registry Number 126438-36-6 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 1,3-dihydroxy-8,9-dimethoxy- (CA INDEX NAME)

CAS Registry Number 133540-66-6 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3-hydroxy-8,9-dimethoxy-1-methyl- (CA INDEX NAME)

CAS Registry Number 133540-67-7 CAPLUS

Chemical or Trade Name 6H-Dibenze[b,d]pyran-6-one, 3-hydroxy-8,9-dimethoxy-1,4-dimethyl- (CA INDEX NAME)

CAS Registry Number 133540-68-8 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 2-chloro-3-hydroxy-8,9-dimethoxy- (CA INDEX NAME)

CAS Registry Number 133540-69-9 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3-hydroxy-8,9,10-trimethoxy-4-methyl- (CA INDEX NAME)

CAS Registry Number 133540-70-2 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 1,3-dihydroxy-8,9,10-trimethoxy- (CA INDEX NAME)

CAS Registry Number 126438-40-2 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 8,9-dimethoxy-3-(sulfooxy)-, potassium salt (1:1) (CA INDEX NAME)

K

CAS Registry Number 126438-41-3 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 8,9-dimethoxy-3-(sulfooxy)-, sodium salt (1:1) (CA INDEX NAME)

Na

CAS Registry Number 126438-42-4 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 8,9-dimethoxy-1-methyl-3-(sulfooxy)-, potassium salt (1:1) (CA INDEX NAME)

K

CAS Registry Number 126438-43-5 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 8,9-dimethoxy-1,3-bis(sulfooxy)-, potassium salt (1:2) (CA INDEX NAME)

●2 K

CAS Registry Number 126438-44-6 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 8,9-dimethoxy-1,3-bis(sulfooxy)-, sodium salt (1:2) (CA INDEX NAME)

●2 Na

CAS Registry Number 126438-47-9 CAPLUS

Chemical or Trade Name Acetic acid, 2,2'-[[8,9-dimethoxy-6-oxo-6H-dibenzo[b,d]pyran-1,3-diyl)bis(oxy)]bis- (9CI) (CA INDEX NAME)

CAS Registry Number 126470-14-2 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 8,9-dimethoxy-3-(sulfooxy)-, ammonium salt (9CI) (CA INDEX NAME)

● ИНЗ

CAS Registry Number 133540-72-4 CAPLUS

Chemical or Trade Name Acetic acid, 2-[(8,9-dimethoxy-6-oxo-6H-dibenzo[b,d]pyran-3-y1)oxy]- (CA INDEX NAME)

CAS Registry Number 133540-73-5 CAPLUS

Chemical or Trade Name

Acetic acid, 2-[(8,9-dimethoxy-1,4-dimethyl-6-oxo-6H-dibenzo[b,d]pyran-3-yl)oxy]- (CA INDEX NAME)

CAS Registry Number 133540-75-7 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 8,9-dimethoxy-1,3-bis(sulfooxy)-, diammonium salt (9CI) (CA INDEX NAME)

2 NH₃

CAS Registry Number 133540-76-8 CAPLUS

Chemical or Trade Name Acetic acid, 2=[(8,9,10-trimethoxy-6-oxo-6H-dibenzo[b,d]pyran-3-y1)oxy]-(CA INDEX NAME)

CAS Registry Number 133540-77-9 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 8,9,10-trimethoxy-4-methyl-3-(sulfooxy)-, potassium salt (1:1) (CA INDEX NAME)

■ F

CAS Registry Number 133540-78-0 CAPLUS

Chemical or Trade Name Acetic acid, 2,2'-[(8,9,10-trimethoxy-6-oxo-6H-dibenzo[b,d]pyran-1,3-diyl)bis(oxy)]bis-(9C1) (CA INDEX NAME)

CAS Registry Number 133540-82-6 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 8,9-dimethoxy-3-(sulfooxy)- (CA INDEX NAME)

CAS Registry Number 133540-83-7 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 8,9-dimethoxy-1-methyl-3-(sulfooxy)- (CA INDEX NAME)

CAS Registry Number 133540-84-8 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 8,9-dimethoxy-1,3-bis(sulfooxy)- (CA INDEX NAME)

CAS Registry Number 133558-05-1 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 8,9,10-trimethoxy-4-methyl-3-(sulfooxy)- (CA INDEX NAME)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L8 ANSWER 71 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN

1991:639436 CAPLUS Full-text

Document Number 115:239436

Title

The core structure of shilajit humus

Author/Inventor
Ghosal, Shibnath; Lal, Jawahar; Singh, Sushil K.

Patent Assignee/Corporate Source
Dep. Pharm., Banaras Hindu Univ., Varanasi, 221005, India

Soil Biology & Biochemistry (1991), 23(7), 673-80 CODEN: SBIOAH; ISSN: 0038-0717

Document Type Journal

Language English Abstract

The nature of the building blocks and their alignments in the humus core of shilajit were determined by mild and drastic degrdns, and by comprehensive spectroscopic analyses of the products. Mild hydrolysis of humic acids (HAs) from shilajit afforded 2 new dibenzo-α-pyrones, viz. 3-O-palmitoyl-8-hydroxydibenzo-α-pyrone and 3-O-β-D-glucosyl-8-hydroxydibenzo-α-pyrone, and two new tirucallane-type triterpenic acids, viz. 23(2)-3β-hydroxy-tirucalla-8,24-dien-26-oic acid and 24(2)-3β-hydroxy-tirucalla-7,24-dien-26-oic acid. The resistant HAs (RHAs), obtained after mild hydrolysis, when subjected sep., to KMnO4 oxidation and Zn dust distillation gave several aromatic carboxylic acids, polynuclear aromatic hydrocarboxs, a simple dibenzo-α-pyrone (= 3,4-benzo-commani) and fluorene. These products, except the 2 last-named compdes, have been reported from similar degrdns, of soil-sediment humus, indicating the inherent structural similarities of humus from 2 dissimilar sources. On the basis of the above and related observations, a partial structure of the shilajit humus core, involving oxygenated dibenzo-α-pyrones, is postulated. Addnl., the necessity of standardization of shilajit, a panacea in oriental medicine, on the basis of its active principles and carrier mols. (e.g. fulvic acids) is suggested.

Hit Structure

CAS Registry Number 1143-70-0 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-dihydroxy- (CA INDEX NAME)

CAS Registry Number 137067-98-2 CAPLUS

Chemical or Trade Name Hexadecanoic acid, 8-hydroxy-6-oxo-6H-dibenzo[b,d]pyran-3-yl ester (CA INDEX NAME)

CAS Registry Number 137067-99-3 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3-(β -D-glucopyranosyloxy)-8-hydroxy- (CA INDEX NAME)

OS.CITING REF COUNT:

THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD (9 CITINGS)

L8 ANSWER 72 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number 1991:607611 CAPLUS <u>Fuli-text</u>

Document Number 115:207611

Title

Novel concepts in directed biaryl synthesis. 4. Diastereoselective ring opening of achiral bridged biaryls using chiral O- and N-nucleophiles: first atropo-enantioselective synthesis of (-)-4,4-bis(orcinol) Novel concepts in an execution, and Author/Inventor
Author/Inventor
Bringmann, Gerhard; Walter, Rainer; Ewers, Christian L. J.
Patent Assignee/Corporate Source
Inst. Org. Chem., Univ. Wuerzburg, Wuerzburg, D-8700, Germany

Synlett (1991), (8), 581-3 CODEN: SYNLES; ISSN: 0936-5214
Document Type
Journal

Language English Abstract

The atropisomer-selective cleavage of the bridged biaryl I, which has no stereogenic element, is described. The directed ring opening of the lactone bridge is achieved with chiral O- or N- nucleophiles, i.e., by external asym. induction. The application of this novel process to the 1st atropo-enantioselective synthesis of the constitutionally sym., known (-)-4,4-bis(orcinol) II is described.

Hit Structure

CAS Registry Number 136611-10-4 CAPLUS

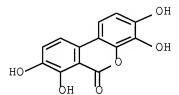
Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8,10-trimethoxy-1-methyl- (CA INDEX NAME)

OS.CITING REF COUNT:

THERE ARE 12 CAPLUS RECORDS THAT CITE THIS RECORD (12 CITINGS) 12

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, L8 ANSWER 73 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1991:542090 CAPLUS <u>Full-text</u>
 Document Number
            115:142090
 Title
            Chemistry of shilajit, an immunomodulatory Ayurvedic rasayan
Author/Inventor
Ghosal, Shibnath
Patent Assignee/Corporate Source
Dep. Pharm., Banaras Hindu Univ., Varanasi, India
 Source
           Pure and Applied Chemistry (1990), 62(7), 1285-8 CODEN: PACHAS; ISSN: 0033-4545
Document Type
Journal
Language
English
            t
The chemical polemics in the reported literature on shilajit are resolved. This study shows that humification of latex and resin-bearing plants is responsible for the major organic mass (80-85%) of shilajit. The low-mol.-weight chemical markers (8-10%), viz. aucuparins, oxygenated dibenzo-α-pyrones and triterpenic acids of the finicallane type (free and conjugated), occurring in the core structure of shilajit humus, are the major active constituents of Himalayan shilajit. The therapeutic effects of shilajit are the consequences of hormonal control and regulation of immunity.
 Hit Structure
            CAS Registry Number
1143-70-0 CAPLUS
            Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-dihydroxy- (CA INDEX NAME)
                                                                                     OH.
            OS.CITING REF COUNT:
                                                       15
                                                                   THERE ARE 15 CAPLUS RECORDS THAT CITE THIS RECORD (15 CITINGS)
 L8 ANSWER 74 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN
Accession Number
1991;428958 CAPLUS <u>Full-text</u>
 Document Number
            115:28958
 Title
            Sequential directed ortho metalation-boronic acid cross-coupling reactions. A general regiospecific route to oxygenated dibenzo[b,d]pyran-6-ones related to ellagic acid
 Author/Inventor
            Alo, B. I.; Kandil, A.; Patil, P. A.; Sharp, M. J.; Siddiqui, M. A.; Snieckus, Victor; Josephy, P. D.
Patent Assignee/Corporate Source
Guelph-Waterloo Cent. Grad. Work Chem., Univ. Waterloo, Waterloo, ON, N2L 3G1, Can.
 Source
            Journal of Organic Chemistry (1991), 56(12), 3763-8 CODEN: JOCEAH; ISSN: 0022-3263
Document Type
Journal
Language
English
 Abstract
            70 Crtho metalation-boronation of RC6H4CONR21 [R = H, 2-OMe, 2,3-(OMe)2, R1 = CHMe2, Et] gave the arylboronic acids I which upon Pd-catalyzed cross-coupling with alkoxybromobenzenes II (R2 = Me, CH2OMe, R3 = H, 3, 4-(OMe)2, 4-MeO, 4-MeO-6-Me) gave 45-88% biphenylamides III . BBr3 demethylation of III followed by acid-catalyzed cyclization gave 47-89% dibenzo[b,d]pyran-6-ones IV.
 Hit Structure
            CAS Registry Number
1143-70-0 CAPLUS
            Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-dihydroxy- (CA INDEX NAME)
                                                                                        OH
            CAS Registry Number
131086-94-7 CAPLUS
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Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,4,7,8-tetrahydroxy- (CA INDEX NAME)



CAS Registry Number 131086-98-1 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,4,8,9-tetrahydroxy- (CA INDEX NAME)

107 THERE ARE 107 CAPLUS RECORDS THAT CITE THIS RECORD (111 CITINGS)

, L8 ANSWER 75 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1991:409541 CAPLUS <u>Full-text</u> Document Number

115:9541

Title

Structural effects in the formation of intermolecular charge-transfer polymer complexes

Author/Inventor
Tkachev, A. V.; Tverskoi, V. A.; Zubov, V. P.

Patent Assignee/Corporate Source
Mosk. Inst. Tonkoi Khim. Tekhnol., Moscow, USSR

Source

Vysokomolekulyarnye Soedineniya, Seriya A (1991), 33(2), 270-4 CODEN: VYSAAF; ISSN: 0507-5475

Document Type Journal

Language Russian

Russian

Abstract

Formation and structure of charge-transfer complexes of dinitrodibenzopyranonyl group-containing Me hydroxypropyl siloxanes and dinitrofluorenonyl group-containing polymethacrylates with N-ethylcarbazole, poly(N-vinylcarbazole), and poly(N-epoxypropylcarbazole) was studied. In all cases complexes of the 1:1 composition were formed. The stability of the complexes depended on the structure of the macromol. chains, on the content of acceptor groups, and on the concentration and structure of the shielding groups. The comparison with complexes of low-mol-weight model compds. was made.

CAS Registry Number 124959-80-4 CAPLUS

Chemical or Trade Name
6H-Dibenzo[b,d]pyran-10-carbonyl chloride, 3,8-dinitro-6-oxo- (CA INDEX NAME)

CAS Registry Number 133959-56-5 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-10-carboxylic acid, 3,8-dinitro-6-oxo-, propyl ester, compd. with 9-(oxiranylmethyl)-9H-carboxzole homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 133959-55-4 CMF C17 H12 N2 O8

$$\begin{array}{c} \text{NO2} \\ \text{O2N} \end{array}$$

CM 2

CRN 55774-96-4 CMF (C15 H13 N O)x CCI PMS

CM 3

CRN 52131-82-5 CMF C15 H13 N O

CAS Registry Number 133977-15-8 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-10-carboxylic acid, 3,8-dinitro-6-oxo-, propyl ester, compd. with 9-ethenyl-9H-carbazole homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 133959-55-4 CMF C17 H12 N2 O8

CRN 25067-59-8 CMF (C14 H11 N)x CCI PMS

CM 3

CRN 1484-13-5 CMF C14 H11 N

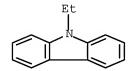
CAS Registry Number 134072-43-8 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-4-carboxylic acid, 3,8-dinitro-6-oxo-, propyl ester, compd. with 9-ethyl-9H-carbazole (1:?) (CA INDEX NAME)

CRN 134847-07-7 CMF C17 H12 N2 O8

CM 2

CRN 86-28-2 CMF C14 H13 N



, L8 ANSWER 76 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1991:237618 CAPLUS Full-text

Document Number 114:237618

Title

Electrophotographic photoreceptor using disazo pigment as charge-generating agent

Author/Inventor
Kanamaru, Tetsuo
Patent Assignee/Corporate Source
Canon K. K., Japan

Source
Jpn. Kokai Tokkyo Koho, 11 pp. CODEN: JKXXAF
Document Type
Patent

Language
Japanese
Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 02253267	A	19901012	JP 1989-77062	19890328

Adstract

The title photoreceptor comprises an elec, conductive support coated with a photosensitive layer containing a disazo pigment I (R, R1 = coupler residue having phenolic OH group; R2, R3, = H, halo, alkyl, alkoxy). The photoreceptor shows good photosensitivity and stable potential in repeated use. Thus, an AI plate was coated with a charge-generating layer containing I (R = R1 = II; R2 = R3 = H) and with a charge-transporting layer containing a hydrazone compound to give a photoreceptor.

Hit Structure

CAS Registry Number 108525-68-4 CAPLUS

Chemical or Trade Name 2-Naphthalenecarboxamide, 4,4'-[(6-oxo-6H-dibenzo[b,d]pyran-3,8-diyl)bis(azo)]bis[N-(2,4-dimethylphenyl)-3-hydroxy- (9CI) (CA INDEX NAME)

CAS Registry Number 108525-87-7 CAPLUS

Chemical or Trade Name 11H-Benzo[a]carboxamide, 1,1'-[(6-0x0-6H-dibenzo[b,d]pyran-3,8-diy1)bis(azo)]bis[2-hydroxy-N-(4-methoxy-2-methylpheny1)- (9CI) (CA INDEX NAME)

CAS Registry Number 133878-96-3 CAPLUS

Chemical or Trade Name 2-Naphthalenecarboxamide, 4,4'-[(6-oxo-6H-dibenzo[b,d]pyran-3,8-diyl)bis(azo)]bis[N-ethyl-3-hydroxy- (9CI) (CA INDEX NAME)

CAS Registry Number 133878-97-4 CAPLUS

Chemical or Trade Name
2-Naphthalenecarboxamide, 4,4'-[(6-oxo-6H-dibenzo[b,d]pyran-3,8-diyl)bis(azo)]bis(N-(3-cyanophenyl)-3-hydroxy- (9CI) (CA INDEX NAME)

PAGE 2-A

CAS Registry Number 133878-98-5 CAPLUS

Chemical or Trade Name 2-Naphthalenecarboxamide, 4,4'-[(6-oxo-6H-dibenzo[b,d]pyran-3,8-diyl)bis(azo)]bis[N-(2-chlorophenyl)-3-hydroxy- (9CI) (CA INDEX NAME)

PAGE 1-A

CAS Registry Number 133878-99-6 CAPLUS

Chemical or Trade Name 2-Maphthalenecarboxamide, 4,4'-[(6-oxo-6H-dibenzo[b,d]pyran-3,8-diyl)bis(azo)]bis[3-hydroxy-N,N-diphenyl- (9CI) (CA INDEX NAME)

CAS Registry Number 133879-00-2 CAPLUS

Chemical or Trade Name 2-Naphthalenecarboxamide, 4,4'-[(6-oxo-6H-dibenzo[b,d]pyran-3,8-diyl)bis(azo)]bis[N-ethyl-3-hydroxy-N-(4-methylphenyl)- (9CI) (CA INDEX NAME)

PAGE 2-A

CAS Registry Number 133879-01-3 CAPLUS

Chemical or Trade Name 2-Naphthalenecarbothioamide, 4,4'-[(6-oxo-6H-dibenzo[b,d]pyran-3,8-diyl)bis(azo)]bis[3-hydroxy-N-(1-naphthalenyl)- (9CI) (CA INDEX NAME)

PAGE 1-A

CAS Registry Number 133879-02-4 CAPLUS

Chemical or Trade Name
1H-Benz[de]isoquinoline-1,3(2H)-dione,
6,6'-[(6-oxo-6H-dibenzo[b,d]pyran-3,8-diyl)bis(azo)]bis[2-ethyl-5-hydroxy-(9CI) (CA INDEX NAME)

CAS Registry Number 133879-03-5 CAPLUS

Chemical or Trade Name
1H-Benz[de]isoquinoline-1,3(2H)-dione,
6,6'-[(6-x0-6H-dibenzo[b,d]pyran-3,8-diyl)bis(azo)]bis[5-hydroxy-2-(4-methylphenyl)- (9CI) (CA INDEX NAME)

PAGE 1-A

CAS Registry Number 133879-04-6 CAPLUS

Chemical or Trade Name 2-Anthracenecarbothioamide, 4,4'-[(6-oxo-6H-dibenzo[b,d]pyran-3,8-diyl)bis(azo)]bis[N-(2,4-dimethylphenyl)-3-hydroxy- (9CI) (CA INDEX NAME)

PAGE 2-A

CAS Registry Number 133879-05-7 CAPLUS

Chemical or Trade Name 3-Dibenzofurancarboxamide, 1,1'-[(6-oxo-6H-dibenzo[b,d]pyran-3,8-diyl)bis(azo)]bis[2-hydroxy-N-[2-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

PAGE 2-A

CAS Registry Number 133879-06-8 CAPLUS

Chemical or Trade Name
9H-Carbazole-3-carboxamide, 1,1'-[(6-oxo-6H-dibenzo[b,d]pyran-3,8-diyl)bis(azo)]bis[N-(2-ethylphenyl)-2-hydroxy- (9CI) (CA INDEX NAME)

PAGE 1-A

CAS Registry Number 133879-07-9 CAPLUS

Chemical or Trade Name
11H-Benzo[a]carbazole-3-carboxamide,
1,1-[(6-oxo-6H-dibenzo[b,d]pyran-3,8-diy1)bis(azo)]bis[2-hydroxy-N-[2-(trifluoromethy1)pheny1]- (9CI) (CA INDEX NAME)

PAGE 1-A

OH

NH

CF3

CF3

PAGE 1-B

CAS Registry Number 133879-08-0 CAPLUS

Chemical or Trade Name
11H-Benzo[a]carbazole-3-carboxamide,
1,1-[{6-cox-6H-dibenzo[b,d]pyran-3,8-diy1}bis(azo)]bis[N-[[(2-chloropheny1)amino]carbony1]-2-hydroxy- (9CI) (CA INDEX NAME)

CAS Registry Number 133879-09-1 CAPLUS

Chemical or Trade Name
11H-Benzo[a]carbazole-3-carboxamide,
1,1*-[[6-cxo-6H-dibenzo[b,d]pyran-3,8-diy1)bis(azo)]bis[N-[[(2-cyanopheny1)amino]thioxomethy1]-2-hydroxy- (9CI) (CA INDEX NAME)

PAGE 1-B

CAS Registry Number 133879-10-4 CAPLUS

Chemical or Trade Name
11H-Benzo[a]carbazole-3-carboxamide,
1,1'-[(6-cxo-6H-dibenzo[b,d]pyran-3,8-diyl)bis(azo)]bis[8-chloro-N-(2-ethylphenyl)-2-hydroxy- (9CI) (CA INDEX NAME)



CAS Registry Number 133879-11-5 CAPLUS

Chemical or Trade Name
11H-Benzo[a]carbazole-3-carbothioamide,
1,1'-[(6-xo-6H-dibenzo[b,d]pyran-3,8-diy1)bis(azo)]bis[2-hydroxy-8-methyl-N-(2-nitrophenyl)- (9CI) (CA INDEX NAME)

PAGE 1-B

CAS Registry Number 133879-12-6 CAPLUS

Chemical or Trade Name
11H-Benzo[a]carbazole-3-carboxamide,
1,1-[(6-cxo-6H-dibenzo[b,d]pyran-3,8-diy1)bis(azo)]bis[8,10-dichloro-2-hydroxy-N-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)

CAS Registry Number 133879-13-7 CAPLUS

Chemical or Trade Name 11H-Benzo[a]carboxamide, 1,1'-[(6-cxo-6H-dibenzo[b,d]pyran-3,8-diyl)bis(azo)]bis[2-hydroxy-N-(1-naphthalenyl)-8-nitro- (9CI) (CA INDEX NAME)

CAS Registry Number 133879-14-8 CAPLUS

Chemical or Trade Name 2-Anthracenecarboxamide, 3-hydroxy-4-[2-[3-[2-[2-hydroxy-3-[[(2-methylphenyl)amino]carbonyl]-1-naphthalenyl]diazenyl]-6-oxo-6H-dibenzo[b,d]pyran-8-yl]diazenyl]-N-1-naphthalenyl (CA INDEX NAME)

PAGE 1-A

HO. ΝН

CAS Registry Number 133879-15-9 CAPLUS

Chemical or Trade Name

11H-Benzo[a]carbazole-3-carboxamide,
8-chloro-2-hydroxy-1-[2-[8-[2-[2-hydroxy-3-[(1-naphthalenylamino)carbonyl]11H-benzo[a]carbazol-1-yl]diazenyl]-6-oxo-6H-dibenzo[b,d]pyran-3yl]diazenyl]-N-(2-methyl-5-nitrophenyl)- (CA INDEX NAME)

PAGE 1-B

CAS Registry Number 133879-16-0 CAPLUS

Chemical or Trade Name
11H-Benzo[a]carbazole-3-carboxamide,
2-bydroxy-1-[2-[3-[2-[2-bydroxy-3-[[(2-methyl-3-nitrophenyl)amino|thioxomethyl]-11H-benzo[a]carbazol-1-yl]diazenyl]-6-oxo-6H-dibenzo[b,d]pyran-8-yl]diazenyl]-N-phenyl- (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

CAS Registry Number 133897-14-0 CAPLUS

Chemical or Trade Name 2-Naphthalenecarboxamide, 4,4'-[(6-oxo-6H-dibenzo[b,d]pyran-3,8-diyl)bis[azo])bis[3-hydroxy-N-[[(2-methyl-5-nitrophenyl)amino]carbonyl]-(9CI) (CA INDEX NAME)

CAS Registry Number 133897-15-1 CAPLUS

Chemical or Trade Name 2-Naphthalenecarboxamide, 4,4'-[(6-oxo-6H-dibenzo[b,d]pyran-3,8-diyl)bis[azo]bis[3-hydroxy-N-(thioxo[[2-(trifluoromethyl)phenyl]amino]methyl]- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

CAS Registry Number 133897-16-2 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-bis[2-(5-hydroxy-7H-benzimidazo[2,1-a]benz[de]isoquinolin-4-yl)diazenyl]- (CA INDEX NAME)

CAS Registry Number 133897-17-3 CAPLUS

Chemical or Trade Name 11H-Benzo[a]carbothioamide, 1,1'-[[6-oxo-6H-dibenzo[b,d]pyran-3,8-diyl)bis(azo)]bis[2-hydroxy-N-(4-methylphenyl)- (9CI) (CA INDEX NAME)

CAS Registry Number 133897-18-4 CAPLUS

Chemical or Trade Name

1H-Benzo[a]carbazole-3-carboxamide,

N-[[(2-chlorophenyl)amino]carbonyl]-2-hydroxy-1-[2-[8-[2-[2-hydroxy-3-[[(2-ntrophenyl)amino]carbonyl]-1-naphthalenyl]diazenyl]-6-oxo-6Hdibenzo[b,d]pyran-3-yl]diazenyl]- (CA INDEX NAME)

CAS Registry Number 108525-86-6 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-diamino- (CA INDEX NAME)

CAS Registry Number 133878-95-2 CAPLUS

Chemical or Trade Name
2-Naphthalenecarboxamide, 4,4'-[(6-oxo-6H-dibenzo[b,d]pyran-3,8-diyl)bis(azo)]bis[3-hydroxy-N-(2-methylphenyl)- (9CI) (CA INDEX NAME)

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, L8 ANSWER 77 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1991.74858 CAPLUS <u>Full-text</u>
 Document Number
         114:74858
 Title
         Hydroxylation of \Delta 9-tetrhydrocannabinol by human peripheral blood monocytes in tissue culture
 Author/Inventor
         Wiederhold, Mark D.; Shen, Mei L.; Ou, David W.
Patent Assignee/Corporate Source
Dep. Pathol., Univ. Illinois, Chicago, IL, USA
 Source
         Journal of Pharmaceutical and Biomedical Analysis (1990), 8(3), 293-5 CODEN: JPBADA; ISSN: 0731-7085
 Document Type
Language
English
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mmunosuppression of immune cells was observed following administration of cannabinoids. The authors are interested in the effects of cannabinoids on monocyte/macrophage functions, since this important cell plays a central role in the modulation of immunol. system. The authors have sought to identify oxidized metabolities of human monocytes to ∆9-tetrahydrocannabinol (d9THC) in vitro. Anal. of metabolities of d9THC revealed a predominance of hydroxylated products. The significance of these products may be related to their ability to act as immuno-regulatory substances.

CAS Registry Number 131815-18-4 CAPLUS Chemical or Trade Name 6H-Dibenzo[b,d]pyran-1,8-diol, 3-(2-hydroxypenty1)-6,6,9-trimethyl- (CA INDEX NAME)

L8 ANSWER 78 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN

Document Number

Accession Number 1991:19258 CAPLUS <u>Full-text</u>

Inhibition of benzo[a]pyrene dihydrodiol epoxide mutagenicity by synthetic analogs of ellagic acid

Author/Inventor
Josephy, P. David; Lord, Heather L.; Snieckus, Victor A.

Patent Assignee/Corporate Source
Guelph-Waterloo Cent. Grad. Work Chem., Univ. Guelph, Guelph, ON, N1G 2W1, Can.

Mutation Research, Genetic Toxicology Testing (1990), 242(2), 143-9 CODEN: MRGTE4; ISSN: 0165-1218 Document Type

Language English

Hydroxylated and methoxylated dibenzo[b,d]pyran-6-one (I) and some other analogs of the natural product ellagic acid were synthesized and examined as inhibitors of benzo[a]pyrenedihydrodiol epoxide (BPDE) mutagenicity in Salmonella typhimurium strain TA100. Some of these new compds, have inhibitory effectiveness comparable to the natural product. On the basis of these results, qual. rules are suggested for predicting inhibitory activity of ellagic acid analogs.

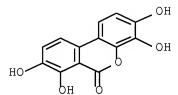
Hit Structure

CAS Registry Number 1143-70-0 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-dihydroxy- (CA INDEX NAME)

CAS Registry Number 131086-94-7 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,4,7,8-tetrahydroxy- (CA INDEX NAME)



CAS Registry Number 131086-98-1 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,4,8,9-tetrahydroxy- (CA INDEX NAME)

THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)

, L8 ANSWER 79 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1991:6225 CAPLUS <u>Full-text</u> Document Number

114:6225

Title

Polar effects in the decomposition of bis(3-alkoxyaroyl) peroxides. Synthesis of 8-alkoxy-6H-dibenzo[b,d]pyran-6-ones

Potar eneus et un securio Author/Inventor Auricchio, Sergio; Citterio, Attilio; Sebastiano, Roberto Patent Assignee/Corporate Source
Dip. Chim., Politec. Milano, Milan, 20133, Italy

Journal of Organic Chemistry (1990), 55(26), 6312-16 CODEN: JOCEAH; ISSN: 0022-3263

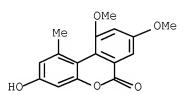
Document Type Journal

Language English

English
Abstract
The reaction of 4 substituted bis(3-alkoxybenzoyl) peroxides in neat phenols affords mainly 8-alkoxy-6H-dibenzo[b,d]pyran-6-ones and ortho-benzoyloxylation products of the phenol. E.g., 3,5-(MeO)
2C6H3CO202CC6H3(OMe)2-3,5 and 4-MeC6H4OH give 41 % dibenzopyranone I and 28% hydroxyphenyl benzoate II. Diaroyl peroxides without electron-releasing meta substituents afford only analogs of II. A mechanism involving monoelectronic oxidation of the phenol by the peroxide and biaryl coupling by preferential addition of the phenol radical cation to the ortho positions to the alkoxy group of the diaroyl peroxide is suggested.

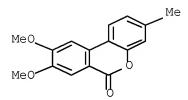
CAS Registry Number 129194-47-4 CAPLUS

Chemical or Trade Name
6H-Dibenzo[b,d]pyran-6-one, 3-hydroxy-8,10-dimethoxy-1-methyl- (CA INDEX NAME)



CAS Registry Number 129194-49-6 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 8,9-dimethoxy-3-methyl- (CA INDEX NAME)



OS.CITING REF COUNT: THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L8 ANSWER 80 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number

1990:611867 CAPLUS Fuil-text

Document Number 113:211867

Title

Method of obtaining brominated aromatic and heterocyclic compounds containing acceptor groups

Author/Inventor
Andrievskii, A. M.; Gorelik, M. V.; Avidon, S. V.; Nikonov, V. V.; Vorozhtsov, G. N.; Linko, R. V.; Chelysheva, O. V.; Poplavskii, A. N.; Dyumaev, K. M.
Patent Assignee/Corporate Source
USSR

PCT Int. Appl., 23 pp. CODEN: PIXXD2

Document Type Patent

Language Russian

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9007479	A1	19900712	WO 1989-SU333	19891222
SU 1817764	A3	19930523	SU 1988-4622748	19881230
EP 408759	A1	19910123	EP 1990-901086	19891222
JP 03503174	т	19910718	JP 1990-501832	19891222
CN 1044808	A	19900822	CN 1989-109854	19891230

Abstract
The title compds., useful as antipyretics (no data) and intermediates for dyes, pigments, herbicides, etc., were prepared by bromination of the precursor compds. (aromatic and heterocyclic) (I) with Br (reaction component A) or a bromide salt (A1) in the presence of HNO3 (B) or a nitrate salt (B1) and H2SO4 or oleum (C) at 20-120′, at the mol. ratio 1: (A or A1);(B or B1):C = 1:(0.5-3.2 or 1.0-7.0);(0.5-3.0 or 1.0-4.0);(6.0-70.0). Thus, Br was added to a solution of 3.8-dinitro-6H-dibenzo(b,d]pyran-6-one (II) in H2SO4 and stirred 1 h at room temperature HNO3 was added and the resulting mixture, having a mol ratio o II:Br:HNO3:H2SO4 = 1:2.3:2.8:70.0, was stirred 4 h at 35-40° to give 90.4 weight% dibenzopyranone III.

CAS Registry Number 63636-78-2 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-dinitro- (CA INDEX NAME)

CAS Registry Number 130373-61-4 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 2-bromo-3,8-dinitro- (CA INDEX NAME)

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L8 ANSWER 81 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN
Accession Number
1990:511005 CAPLUS <u>Fuli-text</u>
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Document Number

113:111005

Title

Mechanism of reaction of 3-hydroxyanthranilic acid with molecular oxygen

Author/Inventor

Manthey, Michael K.; Pyne, Stephen G.; Truscott, Roger J. W.

Patent Assignee/Corporate Source
Dep. Chem., Univ. Wollongong, Wollongong, 2500, Australia

Source

Biochimica et Biophysica Acta, General Subjects (1990), 1034(2), 207-12 CODEN: BBGSB3; ISSN: 0304-4165

Document Type Journal

Language

English

the autoxidn, of the tryptophan metabolite 3-hydroxyanthranilic acid at pH 7 gives rise to a p-quinone dimer and cinnabarinic acid. A novel dimer formed by radical-radical coupling of 3-hydroxyanthranilic acid is also produced. The autoxidn, of the tryptophan metabolite 3-hydroxyanthranilic acid is formed but undergoes decomposition by H2O2. At pH 7, in the p-quinone dimer is derived from mol. O. A product vs. time study of this reaction has revealed that, in the absence of catalase, cinnabarinic acid is formed but undergoes decomposition by H2O2. At pH 7, in the presence of catalase, both the p-quinone dimer and cinnabarinic acid are formed at approx, the same rate and this rate of formation increases with increasing pH. Inclusion of superoxide dismutase was found to increase the rate of formation of cinnabarinic acid, suggesting that superoxide lons may also cause decomposition of cinnabarinic acid. This was confirmed by treating cinnabarinic acid with superoxide. A mechanism involving a common anthranily radical intermediate is proposed to account for the formation of the different oxidation products.

Hit Structure

CAS Registry Number 129085-80-9 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-3-carboxylic acid, 4,7-diamino-8-hydroxy-6-oxo- (CA INDEX NAME)

CAS Registry Number 129085-81-0 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-3-carboxylic acid, 4,7-diamino-8-methoxy-6-oxo-, methyl eter (CA INDEX NAME)

OS.CITING REF COUNT: 17

THERE ARE 17 CAPLUS RECORDS THAT CITE THIS RECORD (17 CITINGS)

L8 ANSWER 82 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number 1990:452222 CAPLUS <u>Fuli-text</u>

Document Number

Title

Shilajit. 5. Mast cell protecting effects of shilajit and its constituents

Author/Inventor
Ghosal, Shibnath; Lal, Jawahar; Singh, Sushil K.; Dasgupta, Gautam; Bhaduri, Joydeep; Mukhopadhyay, Mita; Bhattacharya, Salil K.

Patent Assignee/Corporate Source Inst. Technol., Banaras Hindu Univ., Varanasi, 221005, India

Phytotherapy Research (1989), 3(6), 249-52 CODEN: PHYREH; ISSN: 0951-418X

Document Type Journal

Language English

Abstract

The effects of shilajit and the combined effects of its main constituents, fulvic acids (FAs), 4'-methoxy-6-carbomethoxybiphenyl (MCB) and 3,5-dihydroxydibenzo-a-pyrone (DDP), were studied in relation to the degranulation and disruption of mast cells by noxious stimuli. Shilajit and different combinations of FAs, MCB and DDP provided protection against antigen-induced degranulation of sensitized rat mast cells, markedly inhibited the antigen-induced spasm of sensitized guinea pig lieum (anaphylaxis) and prevented rat mast cell disruption by compound 48'80. The findings are appraised in view of the clin. use of shilajit in the treatment of allergic disorders in Ayurvedic medicine.

Hit Structure

CAS Registry Number 1143-70-0 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-dihydroxy- (CA INDEX NAME)

(4 CITINGS)

L8 ANSWER 83 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1990:424296 CAPLUS <u>Full-text</u>

OS.CITING REF COUNT:

Title

Deaminocolchinyl methyl ether: synthesis from 2,3,4,4'-tetramethoxybiphenyl-2-carbaldehyde. Comparison of antitubulin effects of deaminocolchinyl methyl ether and dehydro analogs Author/Inventor
Boye, Olivier; Itoh, Yoshikuni; Brossi, Arnold

THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD

Patent Assignee/Corporate Source NIDDK, NIH, Bethesda, MD, 20892, USA

Helvetica Chimica Acta (1989), 72(8), 1690-6 CODEN: HCACAV; ISSN: 0018-019X

Document Type Journal

Language English

Abstract

Synthesis of deaminocolchiny! Me ether (I, X = H2) was achieved from the corresponding tetramethoxy-substituted biphenyl-2-carboxaldehyde via tricyclic ketone I (X = 0) and 5,6-didehydro congener II. I (X = H2) was identical in every respect with material prepared from colchicinoids, e.g. I (X = H2) and II, to be potent inhibitors.

Hit Structure

CAS Registry Number 127825-91-6 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,4,8-trimethoxy- (CA INDEX NAME)

OS.CITING REF COUNT: 17 THERE ARE 17 CAPLUS RECORDS THAT CITE THIS RECORD (17 CITINGS)

L8 ANSWER 84 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1990:188952 CAPLUS <u>Full-text</u>

Document Number 112:188952

Title

Electrophotographic photoreceptor with photoconductive layer containing polyazo pigment

Author/Inventor Ueda, Hideaki

Patent Assignee/Corporate Source Minolta Camera Co., Ltd., Japan

Jpn. Kokai Tokkyo Koho, 13 pp. CODEN: JKXXAF Document Type Patent

Language Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01211767	A	19890824	JP 1988-37893	19880219

In the title photoreceptor, the photoconductive layer contains a polyazo pigment of the formula CpN:NAr1N:NAN:NAr2N:NCp [A = aromatic heterocyclic ring (excluding a fluorene ring) having a carbonyl group; Ar1, Ar2 = aryl; Cp = coupler moiety with phenolic OH]. The photoreceptor shows improved sensitivity and durability.

Hit Structure

CAS Registry Number 126022-25-1 CAPLUS

Chemical or Trade Name
11H-Benzo[a]carbazole-3-carboxylic acid,
1,1-[(6-oxo-6H-dibenzo[b,d]pyran-3,8-diyl)bis[azo(fluoro-4,1-phenylene)azo]]bis[2-hydroxy-, bis[(phenylmethylene)hydrazide] (9CI) (CA INDEX NAME)

2 (D1—F)

PAGE 1-B

CAS Registry Number 126167-84-8 CAPLUS

Chemical or Trade Name 2-Naphthalenecarboxamide, 4,4'-[(6-oxo-6H-dibenzo[b,d]pyran-3,8-diyl)bis(azo-4,1-phenyleneazo)]bis[3-hydroxy-N-phenyl- (9CI) (CA INDEX NAME)

CAS Registry Number 126167-85-9 CAPLUS

Chemical or Trade Name 2-Naphthaleneoarboxamide, 4,4'-[(6-oxo-6H-dibenzo[b,d]pyran-3,8-diyl)bis(azo-4,1-phenyleneazo)]bis[N-(2-chlorophenyl)-3-hydroxy- (9CI)(CA INDEX NAME)

CAS Registry Number 126167-86-0 CAPLUS

Chemical or Trade Name
11H-Benzo[a]carbazole-3-carboxamide,
1,1'-[(6-cxo-6H-dibenzo[b,d]pyran-3,8-diyl)bis(azo-4,1-phenyleneazo)]bis[2-hydroxy-N-(2-nitrophenyl)- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

CAS Registry Number 126167-87-1 CAPLUS

Chemical or Trade Name
7H-Benzo[de]pyrazolo[5,1-a]isoquinolin-7-one,
4,4'-[6-cxo-6H-dibenzo[b,d]pyran-3,8-diyl)bis(azo-4,1naphthalenediylazo)]bis[5-hydroxy-10,11-diphenyl- (9CI) (CA INDEX NAME)

PAGE 2-A

, L8 ANSWER 85 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1990:178673 CAPLUS Full-text
Document Number 112:178673

Title

Preparation of 6H-dibenzo[b,d]pyran-6-one derivatives as aldose reductase inhibitors

Ртерывший и от обосмости. до Анголический и от обосмости. В от обосмости от обосмо Patent Assignee/Corporate Source
Toyo Pharmar Co., Ltd., Japan; Daiso Co., Ltd.

Source

Jpn. Kokai Tokkyo Koho, 8 pp. CODEN: JKXXAF Document Type Patent

Language

Japanese Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01250373	A	19891005	JP 1988-80610	19880331

Abstract

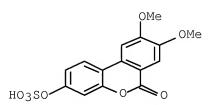
The title compds. [I; R1-R8 = H, alkyl, alkoxy, OSO3M wherein M = H, alkali metal, NH4; OP(O)(OM)2, OCH2CO2M], useful as aldose reductase inhibitors in treating diabetes complications, are prepared CISO3H (0.02 mol) was added to anhydrous pyridine under cooling, 0.01 mol 3-hydroxy derivative I (R3 = OH, others = H) was added, and the solution refluxed, concentrated, cooled, and treated with KOH to pH 8 to give 1.95 g sulfonate salt I (R3 = OSO3K, others = H). Similarly prepared were 18 addnl. I which showed 50-98% inhibition of aldose reductase at 1 + 10-6 M by the Kadoa method.

CAS Registry Number 126438-40-2 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 8,9-dimethoxy-3-(sulfooxy)-, potassium salt (1:1) (CA INDEX NAME)

CAS Registry Number 126438-41-3 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 8,9-dimethoxy-3-(sulfooxy)-, sodium salt (1:1) (CA INDEX NAME)



Na

CAS Registry Number 126438-42-4 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 8,9-dimethoxy-1-methyl-3-(sulfooxy)-, potassium salt (1:1) (CA INDEX NAME)

K

CAS Registry Number 126438-43-5 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 8,9-dimethoxy-1,3-bis(sulfooxy)-, potassium salt (1:2) (CA INDEX NAME)

●2 K

CAS Registry Number 126438-44-6 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 8,9-dimethoxy-1,3-bis(sulfooxy)-, sodium salt (1:2) (CA INDEX NAME)

●2 Na

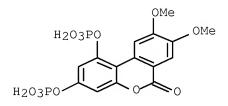
CAS Registry Number 126438-45-7 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 8,9-dimethoxy-1,3-bis(sulfooxy)-, monoammonium salt (9CI) (CA INDEX NAME)

● ИНЗ

CAS Registry Number 126438-46-8 CAPLUS

Chemical or Trade Name 6H-Dibenzo [b,d]pyran-6-one, 8,9-dimethoxy-1,3-bis(phosphonooxy)-, sodium salt (1:4) (CA INDEX NAME)



•4 Na

CAS Registry Number 126438-47-9 CAPLUS

Chemical or Trade Name
Acetic acid, 2,2'-[(8,9-dimethoxy-6-oxo-6H-dibenzo[b,d]pyran-1,3-diyl)bis(oxy)]bis- (9CI) (CA INDEX NAME)

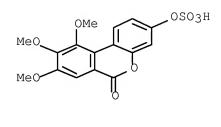
CAS Registry Number 126438-48-0 CAPLUS

Chemical or Trade Name Acetic acid, 2,2'-[(8,9-dimethoxy-6-oxo-6H-dibenzo[b,d]pyran-1,3-diyl)bis(oxy)]bie-, disodium salt (9CI) (CA INDEX NAME)

●2 Na

CAS Registry Number 126438-49-1 CAPLUS

Chemical or Trade Name 6H-Dibenzo(b,d)pyran-6-one, 8,9,10-trimethoxy-3-(sulfooxy)-, potassium salt (1:1) (CA INDEX NAME)



K

CAS Registry Number 126438-50-4 CAPLUS

Chemical or Trade Name
6H-Dibenzo[b,d]pyran-6-one, 8,9,10-trimethoxy-1-methyl-3-(sulfooxy)-,
potassium salt (1:1) (CA INDEX NAME)

K

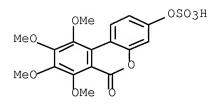
CAS Registry Number 126438-51-5 CAPLUS

Chemical or Trade Name 6H-Dibenzo(b,d)pyran-6-one, 8,9,10-trimethoxy-1,3-bis(sulfooxy)-, potassium salt (1:2) (CA INDEX NAME)

2 K

CAS Registry Number 126438-52-6 CAPLUS

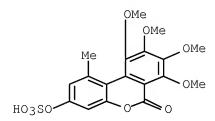
Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 7,8,9,10-tetramethoxy-3-(sulfooxy)-, potassium salt (1:1) (CA INDEX NAME)



■ K

CAS Registry Number 126438-53-7 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 7,8,9,10-tetramethoxy-1-methyl-3-(sulfooxy)-, potassium salt (1:1) (CA INDEX NAME)



K

CAS Registry Number 126438-54-8 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 7,8,9,10-tetramethoxy-1,3-bis(sulfooxy)-, potassium salt (1:2) (CA INDEX NAME)

●2 K

CAS Registry Number 126470-14-2 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 8,9-dimethoxy-3-(sulfooxy)-, ammonium salt (SCI) (CA INDEX NAME)

● ИНЗ

CAS Registry Number 126438-35-5 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3-hydroxy-8,9-dimethoxy- (CA INDEX NAME)

CAS Registry Number 126438-36-6 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 1,3-dihydroxy-8,9-dimethoxy- (CA INDEX NAME)

OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)

1990:164804 CAPLUS Full-text

Document Number 112:164804

Title

Shilajit. Part 4. Chemistry of two bioactive benzopyrone metabolites

Author/Inventor

Ghosal, Shibnath; Lal, Jawahar; Singh, Sushil K.; Kumar, Yatendra; Soti, Ferenc

Patent Assignee/Corporate Source Dep. Pharm., Banaras Hindu Univ., Varanasi, 221005, India

Journal of Chemical Research, Synopses (1989), (11), 350-1 CODEN: JRPSDC; ISSN: 0308-2342

Language English

The reactive benzopyrone (I) was isolated from Shilajit (an organic exridation from steep rocks) and auto-oxidized to 3-hydroxydibenzo-α-pyrone and II on exposure to light and air. II was synthesized from 2-bromo-5-methoxybenzolc acid and resorcinol with demethylation of the resulting 3-hydroxy-8-methoxydibenzopyrone. Both I and II (20 mg/kg orally for 3 days) showed augmentation of swimming endurance in rats and also showed immunomodulating effects.

Hit Structure

CAS Registry Number 1143-70-0 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-dihydroxy- (CA INDEX NAME)

CAS Registry Number 35233-17-1 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3-hydroxy-8-methoxy- (CA INDEX NAME)

OS.CITING REF COUNT: 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD

L8 ANSWER 87 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN

Document Number

Accession Number 1990:149041 CAPLUS <u>Full-text</u>

Title

Electrostatographic photoconductors

Author/Inventor Ueda, Hideaki

Patent Assignee/Corporate Source Minolta Camera Co., Ltd., Japan Source

Jpn. Kokai Tokkyo Koho, 12 pp. CODEN: JKXXAF Document Type Patent

Language Japanese Patent Information

PATENT N	10. k	KIND	DATE	APPLICATION NO.	DATE
JP 01235	958 A	A	19890920	JP 1988-64517	19880316

Abstract

Thotosensitive layer of the title photoconductors contain azo pigments CpN:NAN:NAr1N:NCp (A = carbonyl-containing aromatic heterocyclylene except fluorenylene; Ar1 = arylene; Cp = coupler group having phenolic OH). These photoconductors provide high electrostatog, performance and high sensitivity in longer wavelengths. Thus, an Al-coated Mylar film was coated with a charge carrier-generating layer containing I and polyester, and a charge carrier-transporting layer containing p-diphenylaminobenzadehyde N,N-diphenylhydrazone and polycarbonate, showed sensitivity (irradiation dose required for half decay of charged voltage) 3.5 lx-s.

CAS Registry Number 125834-88-0 CAPLUS

Chemical or Trade Name 2-Naphthalenecarboxamide, N-(2-chlorophenyl)-4-[4-[3-[[3-[[3-[(2-chlorophenyl)amino]carbonyl]-2-hydroxy-1-naphthalenyl]azo]-6-oxo-6H-dibenzo[b,d]pyran-8-y1]azo]phenyl]azo]-3-hydroxy- (9CI) (CA INDEX NAME)

CAS Registry Number 125834-89-1 CAPLUS

Chemical or Trade Name 2-Naphthalenecarboxamide, 4-[[3-chloro-4-[[3-[[2-hydroxy-3-[[(2-nitrophenyl)amino]carbonyl]-1-naphthalenyl]azo]-6-oxo-6H-dibenzo[b,d]pyran-8-yl]azo]phenyl]azo]-3-hydroxy-N-(2-nitrophenyl)- (9CI) (CA INDEX NAME)

CAS Registry Number 125834-90-4 CAPLUS

Chemical or Trade Name
7H-Benzimidazo[2,1-a]benz[de]isoquinolin-7-one,
4-[[3-fluoro-4-[[3-[(5-hydroxy-7-oxo-7H-benzimidazo[2,1-a]benz[de]isoquinolin-4-yl)azo]-6-oxo-6H-dibenzo[b,d]pyran-8-yl]azo]phenyl]azo]-5-hydroxy- (9CI) (CA INDEX NAME)

PAGE 1-A

$$N = N = N = N$$

CAS Registry Number 125834-91-5 CAPLUS

Chemical or Trade Name $6H-Dibenzo[b,d] pyram-6-one, \\ 8-[2-[2-fluoro-4-[2-[2-hydroxy-3-[5-(4-nitrophenyl)-1,3,4-oxadiazol-2-yl]-1-naphthalenyl]diazenyl]phenyl]diazenyl]-3-[2-[2-hydroxy-3-[5-(4-nitrophenyl)-1,3,4-oxadiazol-2-yl]-1-naphthalenyl]diazenyl]- (CA INDEX NAME)$

CAS Registry Number 125864-61-1 CAPLUS

Chemical or Trade Name
11H-Benzo(a)catbazole-3-carboxamide,
1-[[2-chloro-4-[[3-[(2-hydroxy-3-[(phenylamino)carbony1]-11H-benzo[a]carbazol-1-y1]azo]-6-oxo-6H-dibenzo[b,d]pyran-8-y1]azo]pheny1]azo]-2-hydroxy-N-pheny1- (9CI) (CA INDEX NAME)

PAGE 1-A

L8 ANSWER 88 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1990:9988 CAPLUS Full-lext Document Number 112:98988

Title

Inte
Bicornin, a new hydrolyzable tannin from Trapa bicornis, and revised structure of alnusiin
Author/Inventor
Yoshida, Takashi; Yazaki, Kazufumi; Memon, M. Usman; Maruyama, Izumi; Kurokawa, Kenji; Okuda, Takuo
Patent Assignee/Corporate Source
Fac. Pharm. Sci., Okayama Univ., Tsushima, 700, Japan
Source

Heterocycles (1989), 29(5), 861-4 CODEN: HTCYAM; ISSN: 0385-5414

Document Type
Journal
Language
English

Abstract

Abstract
The structure of alnustin, a hydrolyzable tannin isolated from Alnus sieboldiana, was revised to I based on the 1H-13C long-range shift correlation spectroscopy. Bicornin II; R = 3,4,5-(HO)3C6H2CO), a new tannin, was isolated from Trapa bicornis and its structure related to alnustin was determined
Hit Structure

CAS Registry Number 124854-13-3 CAPLUS

Chemical or Trade Name 6H-Dibenzo(b,d)pyran-1-carboxylic acid, 9-(6-carboxy-2,3,4-trihydroxyphenoxy)-3,4,8,10-tetrahydroxy-6-oxo-INDEX NAME)

L8 ANSWER 89 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1990:76879 CAPLUS <u>Full-text</u>
Document Number 112:76879

Title

Decarboxylation in proton-acceptor solvents

Author/Inventor
Andrievskii, A. M.; Poplavskii, A. N.; Grekhova, N. G.; Dyumaev, K. M.; Popova, E. G.; Sobolev, A. N.; Chetkina, L. A.; Bel'skii, V. K.

Patent Assignee/Corporate Source
Nauchno-Issled. Inst. Org. Poluprod. Krasitel., Moscow, 103787, USSR Source

Khimiya Geterotsiklicheskikh Soedinenii (1989), (2), 164-70 CODEN: KGSSAQ; ISSN: 0453-8234

Document Type Journal

Language Russian

Decarboxylation of dibenzopyrancarboxylic acid I (R = CO2H) in DMSO, DMF, or HMPT gave hydroxy derivative I (R = OH), and dinitro derivative I (R = H). Decarboxylation of dioxapyrene derivative II in HMPT gave a mol. complex III which on heating gave I (R = OH). The latter was acetylated to give I (R = OAc). The structure of III was confirmed by x-ray anal. Hit Structure

CAS Registry Number 63636-77-1 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-1-carboxylic acid, 3,8-dinitro-6-oxo- (CA INDEX NAME)

CAS Registry Number 95613-33-5 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 10-hydroxy-3,8-dinitro- (CA INDEX NAME)

CAS Registry Number 125041-71-6 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 10-(acetyloxy)-3,8-dinitro- (CA INDEX NAME)

CAS Registry Number 63636-78-2 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-dinitro- (CA INDEX NAME)

CAS Registry Number 95613-31-3 CAPLUS

Chemical or Trade Name
6H-Dibenzo[b,d]pyran-10-carboxylic acid, 3,8-dinitro-6-oxo- (CA INDEX NAME)

, L8 ANSWER 90 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1990:57176 CAPLUS Full-text

Document Number

112:57176

Photogeneration of charge carriers in polysiloxanes containing nitroaromatic fragments

Author/Inventor

Author/inventor

Bulyshev, Yu. S.; Pashkin, I. I.; Tverskoi, V. A.; Tkachev, A. V.

Patent Assignee/Corporate Source

Irk. Gos. Univ., Irkutsk, USSR

Source

Vysokomolekulyarnye Soedineniya, Seriya B: Kratkie Soobshcheniya (1989), 31(7), 530-4 CODEN: VYSBAI; ISSN: 0507-5483 Document Type

Journal

Language Russian

Study of the photocond, of siloxanes containing Me, hydroxypropyl, and nitrated fluorenonyl or nitrated dibenzopyranonyl side groups showed that the effectiveness of charge carrier transfer depended on the structure of the polymer chain and that the effectiveness of photogeneration depended on the structure of the chromophore side group. The photosensitivity of the polymer depended on the number of nitro groups, the position of the nitro groups in the mol., and the structure of the aromatic ring of the chromophore. The energy gap of the polymers increased with increasing degree of nitration of the chromophore. Hit Structure

CAS Registry Number 124959-80-4 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-10-carbonyl chloride, 3,8-dinitro-6-oxo- (CA INDEX

NO2

L8 ANSWER 91 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number 1989:439077 CAPLUS <u>Full-text</u>

Document Number 111:39077

The synthesis of riccardin C Author/Inventor

Gottsegen, A.; Nogradi, M.; Vermes, B.; Kajtar-Peredy, M.; Bihatsi-Karsai, E. Patent Assignee/Corporate Source
Res. Group Alkaloid Chem., Hung. Acad. Sci., Budapest, H-1521, Hung.

Source

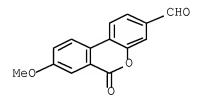
Tetrahedron Letters (1988), 29(39), 5039-40 CODEN: TELEAY; ISSN: 0040-4039 Document Type Journal

Language English

Abstract
Riccardin C (I), was synthesized in an unambiguous way by Ni(O)-assisted intramol. aryl-aryl bond formation of 2,5-I(HCO)C6H3O2CC6H5(OMe)I-5,2 as the key step.

CAS Registry Number 121404-86-2 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-3-carboxaldehyde, 8-methoxy-6-oxo- (CA INDEX NAME)



CAS Registry Number 121404-87-3 CAPLUS

Chemical or Trade Name
Benzoic acid, 4-[2-methoxy-5-[2-(8-methoxy-6-oxo-6H-dibenzo[b,d]pyran-3-y1)ethenyl]phenoxy]-, methyl ester (CA INDEX NAME)

CAS Registry Number 121404-88-4 CAPLUS

Chemical or Trade Name
Benzoic acid, 4-[2-methoxy-5-[2-(8-methoxy-6-oxo-6H-dibenzo[b,d]pyran-3-yl)ethyl]phenoxy]-, methyl ester (CA INDEX NAME)

$$\begin{array}{c} \text{OMe} \\ \text{OMe} \\ \text{OMe} \end{array}$$

THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS) OS.CITING REF COUNT:

L8 ANSWER 92 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1989:231437 CAPLUS <u>Full-text</u>

Document Number 110:231437

Title

Preparation of dibenzopyran derivatives as herbicides

Author/Inventor
Enomoto, Masayuki; Nagano, Hideyoshi; Haga, Toru; Morita, Koichi; Sato, Makoto
Patent Assignee/Corporate Source
Sumitomo Chemical Co., Ltd., Japan

Jpn. Kokai Tokkyo Koho, 9 pp. CODEN: JKXXAF Document Type Patent

Language

intermation						
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
	JP 63264582	A	19881101	JP 1987-99050	19870421	

Dibenzopyran derivs. (I; R = halo, alkyl; X = H, F; n = 0-4), effective herbicides against a wide variety of weeds, are prepared. A suspension of II (Rn = H, R1 = NH2, X = H) and 3,4,5,6-tetrahydrophthalic anhydride in HOAc was refluxed to give I (Rn = X = H), which showed complete control of an Indian mallow at 20 g/are.

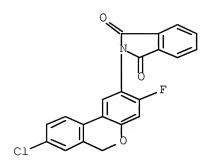
Hit Structure

CAS Registry Number 120866-73-1 CAPLUS

Chemical or Trade Name 1H-Isoindole-1,3(2H)-dione, 2-(3,8-difluoro-6H-dibenzo[b,d]pyran-2-y1)-(CA INDEX NAME)

CAS Registry Number 120866-75-3 CAPLUS

Chemical or Trade Name
1H-Tsoindole-1,3(2H)-dione, 2-(8-chloro-3-fluoro-6H-dibenzo[b,d]pyran-2-y1)- (CA INDEX NAME)



CAS Registry Number 120866-78-6 CAPLUS

Chemical or Trade Name 1H-Tsoindole-1,3(2H)-dione, 2-(3-fluoro-8-methyl-6H-dibenzo[b,d]pyran-2-yl)- (CA INDEX NAME)

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L8 ANSWER 93 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1989:114634 CAPLUS <u>Full-text</u>
Document Number 110:114634
 Title
          System of hydrogen bonds in a crystal of 10-carboxy-3,8-dinitro-6H-dibenzo[b,d]pyran-6-one, toluene, and water (1:1:1)
 Author/Inventor
          Chetkina, L. A.; Popova, E. G.; Bel'skii, V. K.; Zavodnik, V. E.; Andrievskii, A. M.; Sidorenko, E. N.
Patent Assignee/Corporate Source
Nauchno-Issled. Fiz.-Khim. Inst. im. Karpova, Moscow, USSR
Source
         Doklady Akademii Nauk SSSR (1988), 301(2), 350-3 [Crystallogr.] CODEN: DANKAS; ISSN: 0002-3264
Document Type
Journal
Language
Russian
Abstract

An x-ray anal. of dibenzopyranone derivative I in a crystal containing toluene and H2O was carried out. The pyran ring of I exists in the boat form. H2O mols. participate in 4 H bonds: with the CO2H and CO groups and with both O atoms of one NO2 group. Toluene mols. lie between mols. of I.
          CAS Registry Number
95613-31-3 CAPLUS
          Chemical or Trade Name 6H-Dibenzo[b,d]pyran-10-carboxylic acid, 3,8-dinitro-6-oxo- (CA INDEX NAME)
                                                                              NO<sub>2</sub>
                                         CO2H
          CAS Registry Number
119329-95-2 CAPLUS
          Chemical or Trade Name 6H-Dibenzo[b,d]pyran-10-carboxylic acid, 3,8-dinitro-6-oxo-, compd. with methylbenzene, hydrate (1:1:1) (CA INDEX NAME)
          CRN 95613-31-3
CMF C14 H6 N2 O8
                                                                               NO2
                                         CO2H
          CM 2
                                      СНЗ
L8 ANSWER 94 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1987:506129 CAPLUS Fwl:-text Document Number 107:106129
 Title
          Six types of nitro compounds for electrophotography
          Andrievskii, A. M.; Tverskoi, V. A.; Balabanov, E. I.; Titov, V. V.; Pravednikov, A. N.; Dyumaev, K. M.
Patent Assignee/Corporate Source
Nauchno-Issled. Inst. Org. Poluprod. Krasitelei, Moscow, USSR
          Elektron. Org. Mater. (1985), 256-9 CODEN: 55TIAF
Document Type
Conference
Language
Russian
```

Abstract

Hit Structure

CAS Registry Number 63636-78-2 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-dinitro- (CA INDEX NAME)

. L8 ANSWER 95 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1987:224452 CAPLUS <u>Full-text</u>

Document Number

106:224452

Title

Electrophotographic charge-generating azo photoconductors

Author/Inventor

Author/Inventor
Hirose, Hisahiro; Watanabe, Kazumasa; Kinoshita, Akira
Patent Assignee/Corporate Source
Konishiroku Photo Industry Co., Ltd., Japan

Source

Jpn. Kokai Tokkyo Koho, 21 pp. CODEN: JKXXAF Document Type Patent

Language
Japanese
Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
JP 61259258	A	19861117	JP 1985-102333	19850513	
JP 04015469	В	19920318			

Abstract

The azo compds. have the formula I(Y1, Y2 = H, halo, alkyl, etc.; A = II, III, IV, etc.; Q1, Q3, Q6 = V, VI, etc.; R11, R14 = H, alkyl, halo, alkoxy, etc.; n, m = 1-5). An Al substrate was coated with a charge-generating layer composed of Panlite L 1250 binder and the azo compound of the formula VII and charge-transporting layer composed of Panlite L 1250 binder and 1-phenyl-(p-methylstyryl)-5-(p-methoxyphenyl)pyrazoline to give a composite photoconductor. It showed improved sensitivity and stability for repeated uses. Hit Structure

CAS Registry Number 108525-61-7 CAPLUS

Chemical or Trade Name
11H-Benzo[a]carbazole-3-carboxamide,
1,1-[[6-oxo-6H-dibenzo[b,d]pyran-3,8-diy1)bis(azo)]bis[2-hydroxy-N-(2-methylphenyl)- (9CI) (CA INDEX NAME)

PAGE 1-B



CAS Registry Number 108525-62-8 CAPLUS

Chemical or Trade Name
11H-Benzo[a]carbazole-3-carboxamide,
1,1-[6-0xo-6H-dibenzo[b,d]pyran-3,8-diyl)bis(azo)]bis[2-hydroxy-N-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)

PAGE 1-B

CAS Registry Number 108525-63-9 CAPLUS

Chemical or Trade Name 11H-Benzo[a]carboxamide, 1,1'-[(6-cxo-6H-dibenzo[b,d]pyran-3,8-diy1)bis(azo)]bis[N-(4-chloropheny1)-2-hydroxy- (9CI) (CA INDEX NAME)

PAGE 1-B

Chemical or Trade Name
11H-Benzo[a]aarbazole-3-carboxamide,
1,1-[(6-oxo-6H-dibenzo[b,d]pyran-3,8-diy1)bis(azo)]bis[N-(2,4-dimethoxypheny1)-2-hydroxy- (9CI) (CA INDEX NAME)

PAGE 1-B

CAS Registry Number 108525-65-1 CAPLUS

Chemical or Trade Name 11H-Benzo[a]carbazole-3-carboxamide, 1,1'-[(2,9-dimethoxy-6-oxo-6H-dibenzo[b,d]pyran-3,8-diy1)bis(azo)]bis[N-(4-ethylpheny1)-2-hydroxy- (9CI) (CA INDEX NAME)

PAGE 1-B

CAS Registry Number 108525-66-2 CAPLUS

Chemical or Trade Name 2-Naphthalenecarboxamide, 4,4'-[(6-oxo-6H-dibenzo[b,d]pyran-3,8-

CAS Registry Number 108525-67-3 CAPLUS

Chemical or Trade Name
2-Naphthalenecarboxamide, 4,4'-[(6-oxo-6H-dibenzo[b,d]pyran-3,8-diyl)bis(azo)]bis(N-(2-bromophenyl)-3-hydroxy- (9CI) (CA INDEX NAME)

PAGE 1-A

CAS Registry Number 108525-68-4 CAPLUS

Chemical or Trade Name 2-Naphthalenecarboxamide, 4,4'-[(6-oxo-6H-dibenzo[b,d]pyran-3,8-diyl)bis(azo)]bis[N-(2,4-dimethylphenyl)-3-hydroxy- (9CI) (CA INDEX NAME)

CAS Registry Number 108525-69-5 CAPLUS

Chemical or Trade Name

2-Naphthalenecarboxamide, 4,4'-[(9-methoxy-6-oxo-6H-dibenzo[b,d]pyran-3,8-diyl)bis(azo)]bis[3-hydroxy-N-(4-methoxy-2-methylphenyl)- (9CI) (CA INDEX NAME)

PAGE 2-A

CAS Registry Number 108525-70-8 CAPLUS

Chemical or Trade Name 2-Naphthalenecarboxamide, 4,4'-[(2-methyl-6-oxo-6H-dibenzo[b,d]pyran-3,8-diyl)bis(azo)]bis[N-(2-bromophenyl)-3-hydroxy- (9CI) (CA INDEX NAME)

PAGE 1-A

CAS Registry Number 108525-88-8 CAPLUS

Chemical or Trade Name 11H-Benzo[a]carboxamide, 1,1'-[(6-oxo-6H-dibenzo[b,d]pyran-3,8-diy1)bis(azo)]bis[2-hydroxy-N-phenyl-(9CI) (CA INDEX NAME)

CAS Registry Number 108543-47-1 CAPLUS

Chemical or Trade Name 11H-Benzo[a]carbazole-3-carboxamide, 1,1'-[(6-oxo-6H-dibenzo[b,d]pyran-3,8-diyl)bis(azo)]bis[N-(2-ethylphenyl)-2-bydroxy- (9CI) (CA INDEX NAME)

PAGE 1-B

CAS Registry Number 108543-48-2 CAPLUS

Chemical or Trade Name
11H-Benzo[a]carbazole-3-carboxamide,
1,1'-[9-methoxy-6-Coxo-6H-dibenzo[b,d]pyran-3,8-diyl)bis(azo)]bis[2-hydroxy-N-(4-methoxy-2-methylphenyl)- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

CAS Registry Number 108543-49-3 CAPLUS

Chemical or Trade Name 2-Naphthalenecarboxamide, 4,4'-[(6-oxo-6H-dibenzo[b,d]pyran-3,8-diyl)bis(azo)]bis[N-(3-chlorophenyl)-3-hydroxy- (9CI) (CA INDEX NAME)

PAGE 1-A

CAS Registry Number 108525-86-6 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-diamino- (CA INDEX NAME)

CAS Registry Number 108525-87-7 CAPLUS

Chemical or Trade Name 11H-Benzo[a]carboxamide, 1,1'-[[6-cxo-6H-dibenzo[b,d]pyran-3,8-diyl]bis(azo)]bis[2-hydroxy-N-(4-methoxy-2-methylphenyl)- (9CI) (CA INDEX NAME)

PAGE 1-A MeO. ρн

PAGE 1-B

CAS Registry Number 63636-78-2 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-dinitro- (CA INDEX NAME)

L8 ANSWER 96 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1986;590939 CAPLUS <u>Full-text</u>
Document Number 105:190939

Title

10-Carboxy-3,8-dinitro-6H-dibenzo[b,d]pyran-6-one

10-Carboxy-3,8-dnitro-6H-dibenzo[b,d]pyran-6-one
Author/Inventor
Andrievskii, A. M.; Sidorenko, E. N.; Grekhova, N. G.; Dyumaev, K. M.; Popova, E. G.; Chetkina, L. A.; Bel'skii, V. K.
Petent Assignee/Corporate Source
USSR

Source

U.S.S.R. From: Otkrytiya, Izobret. 1986, (22), 117. CODEN: URXXAF Document Type Patent

Language
Russian
Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
SU 1237665	A1	19860615	SU 1984-3802293	19841015

10-Carboxy-3,8-dinitro-6H-dibenzo[b,d]pyran-6-one (I) is prepared from fluorenone derivs. and inorg. acid. Thus, 2,7-dinitro-4-carboxy-9-fluorenone (II) was treated with H2O2 in H2SO4 at 20-30° at a molar ratio of II, H2O2, and H2SO4 1:(3-8):(40-90) resp.

Hit Structure

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-10-carboxylic acid, 3,8-dinitro-6-oxo- (CA INDEX NAME)

```
L8 ANSWER 97 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number
1986;530:664 CAPLUS Full-text

Document Number
105:130664

Title
Tannins and related compounds. XLII. Isolation and characterization of four new hydrolyzable tannins, terflavins A and B, tergallagin and tercatain from the leaves of Terminalia catappa L

Author/Inventor
Tanaka, Takashi; Nonaka, Genichiro; Nishioka, Itsuo

Patent Assignee/Corporate Source
Fac. Pharm. Sci., Kyushu Univ. 62, Fukuoka, 812, Japan

Source
Chemical & Pharmaceutical Bulletin (1986), 34(3), 1039-49 CODEN: CPBTAL; ISSN: 0009-2363

Document Type
Journal

Language
Emplich
```

Asstract

A chemical examination of the leaves of T. catappa (Combretaceae) led to the isolation and characterization of 4 new hydrolyzable tannins named tertlavins A (I) and B (II), tergallagin, and tercatain, together with the 8 known tannins punicalagin, chebulagic acid, geraniin, granatin B, 1-desgalloyleugeniin, corilagin, and 2,3-f(5)-4,4.5,5/6,6-hexahydroxydiphenoyl)-D-glucose. I and II possess novel structures in which a flavogallonyl (triphenyl) ester group is single bonded to the glucopyranose ring, and are presumed to be lowersors of punicalagin and punicalin, resp., while tergallagin which contains a gallagyl (tetraphenyl) group and a unique tergalloyl ester group attached to the glucose moiety, seems to be formed biosynthetically from punicalagin.

Hit Structure

illi Siluciule

CAS Registry Number
104320-85-6 CAPLUS

Chemical or Trade Name
D-Glucose, cyclic 4,6-[(2S,2'S)-2,2'-(5,10-dihydro-2,3,7,8-tetrahydroxy-5,10-dioxo[1]benzopyrano[5,4,3-cde][1]benzopyran-1,6-diyl)bis[3,4,5-trihydroxybenzoate]], cyclic 2,3-ester with
4-(6-carboxy-2,3,4-trihydroxyphenoxy)-3,8,9,10-tetrahydroxy-6-oxo-6H-dibenzo[b,d]pyran-1-carboxylic acid (9CI) (CA INDEX NAME)

CM
1
CRN 104243-50-7
CMF C2I H12 014

CM 2

CRN 65995-64-4

CMF C34 H22 022

```
CAS Registry Number 103714-77-8 CAPLUS

Chemical or Trade Name β-D-Glucopyranoside, methyl, cyclic 4,6-[2,2'-(5,10-dihydro-2,3,7,8-tetramethoxy-5,10-dioxo(1)benzopyranol5,4,3-cde[1]benzopyran-1,6-diyl)bis[3,4,5-trimethoxybenzoate]], cyclic ester with 4-(6-carboxy-2,3,4-trimethoxyphenoxy)-3,8,9,10-tetramethoxy-6-oxo-6H-dibenzo[b,d]pyran-1-carboxylic acid, stereoisomer (9CI) (CA INDEX NAME)

CM
1

CRN 103714-76-7

CMF C45 H44 022

CRN 103714-75-6

CMC C28 H26 014
```

```
CO<sub>2</sub>H
                                        ОМе
                              .OMe
            OMe
                                                ОМе
MeO.
                           HO2C
                                                ОМе
MeO
```

Title

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 2,3,8-trinitro- (CA INDEX NAME)

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CAS Registry Number
103774-24-9 CAPLUS
             Chemical or Trade Name \alpha-D-Glucopyranoside, methyl, cyclic 4,6-[2,2'-(5,10-dihydro-2,3,7,8-tetramethoxy-5,10-dioxo(1)benzopyrano[5,4,3-cde] [1)benzopyran-1,6-diyl)bis[3,4,5-trimethoxybenzoate]], cyclic ester with 4-(6-carboxy-2,3,4-trimethoxypenxy)-3,8,9,10-tetramethoxy-6-oxo-6H-dibenzo[b,d]pyran-1-carboxylic acid, stereoisomer (9CI) (CA INDEX NAME)
                  CM
1
              *** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
             CRN 103714-75-6
CMF C28 H26 O14
                                                                              CO<sub>2</sub>H
                                                                                                              OMe
                                                                                                                                        OMe
                                                         ОМе
                                                                                                                                                               OMe
                        MeO
                                                                                                   HO<sub>2</sub>C
                                                                                                                                                               ОМе
                        MeO
                                                                               THERE ARE 41 CAPLUS RECORDS THAT CITE THIS RECORD (41 CITINGS)
             OS.CITING REF COUNT:
                                                                  41
L8 ANSWER 98 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1986:139706 CAPLUS Full-text
Document Number
              104:139706
             Crystal and molecular structure of two modifications of 2,3,8-trinitro-6H-dibenzo[b,d]pyran-6-one
Crysta and increased success to the Author/Inventor
Popova, E. G.; Chetkina, L. A.; Bel'skii, V. K.; Andrievskii, A. M.; Poplavskii, A. N.; Dyumaev, K. M.
Patent Assignee/Corporate Source
Fiz.-Khim. Inst. im. Karpova, Moscow, USSR
             Kristallografiya (1986), 31(1), 113-19 CODEN: KRISAJ; ISSN: 0023-4761
Document Type
Journal
Language
Russian
 Abstract
             .. The title compound is monoclinic, space group P21/n, with a 7.455(1), b 10.295(2), c 18.085(4) Å, and \( \gamma \) 104.98(1)\( \gamma \) dc = 1.64 for Z = 4 and orthorhombic, space group P212121, with a 5.027(1), b 10.379(2), and c 24.756(7) Å; dc = 1.70 for Z = 4. The atomic parameters are given. The structures were refined by full-matrix least-squares to R = 0.032 and 0.029, resp. The dibenzopyran rings in both forms are planar. The bond lengths and angles were compared.
             CAS Registry Number
99819-84-8 CAPLUS
```

L8 ANSWER 99 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number 1986:139700 CAPLUS <u>Full-text</u> Document Number 104:139700

Title

The structure of 2,3,4,8-tetranitro-6H-dibenzo[b,d]pyran-6-one

Author/Inventor
Chetkina, L. A.; Popova, E. G.; Bel'skii, V. K.; Andrievskii, A. M.; Poplavskii, A. M.; Dyumaev, K. M.

Patent Assignee/Corporate Source Nauchno-Issled. Fiz. -Khim. Inst. im. Karpova, Moscow, USSR

Doklady Akademii Nauk SSSR (1985), 285(5), 1160-4 CODEN: DANKAS; ISSN: 0002-3264

Document Type Journal Language Russian

Abstract

The title compound is monoclinic, space group P21/b, with a 7.073(2e, b 14.789(4e, c 13.429(3) Å, and γ 90.62(2)°, dc = 1.783 for Z = 4. The atomic parameters are given. The structure was solved by direct methods and refined by full-matrix least-squares to R = 0.033. The bond lengths and angles are given. Hit Structure

CAS Registry Number 99819-85-9 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 2,3,4,8-tetranitro- (CA INDEX NAME)

_L8_ANSWER 100 OF 165_CAPLUS_COPYRIGHT 2011 ACS on STN Accession Number 1986:50803_CAPLUS_Field-1ext_Document Number

104:50803

Title

Synthesis of nitro-substituted dioxotetrahydrodioxapyrenes and 6H-dibenzo[b,d]pyran-6-one

Author/Inventor
Andrievskii, A. M.; Poplavskii, A. N.; Eremenko, L. V.; Andronova, N. A.; Dyumaev, K. M. Patent Assignee/Corporate Source
Nauchno-Issled. Inst. Org. Poluprod. Krasitelei, Moscow, 103787, USSR

Source Khimiya Geterotsiklicheskikh Soedinenii (1985), (4), 463-7 CODEN: KGSSAQ; ISSN: 0453-8234

Document Type Journal

Language Russian

ntitration of dioxapyrene I (R = R1 = H) by HNO3 30 min at 78-80° gave 89% I (R = NO2, R1 = H); nitration by HNO3-H2SO4 30 min at 120° gave 91% I (R = R1 = NO2). Nitration of 6H-dibenzo[b,d]pyran-6-one by HNO3-H2SO4 92% 2,4,8-trinitro derivative; nitration by HNO3-H2SO4 gave 24% biphenyl derivative II. Nitration of 3,8-dinitro-6H-dibenzopyran-6-one by HNO3 gave 76% 2,3,8-trinitro derivative, which was further nitrated by HNO3-H2SO4 to give 64% 2,3,4,8-tetranitro derivative

Hit Structure

CAS Registry Number 63636-78-2 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-dinitro- (CA INDEX NAME)

CAS Registry Number 99819-84-8 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 2,3,8-trinitro- (CA INDEX NAME)

CAS Registry Number 99819-85-9 CAPLUS

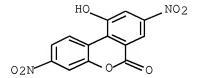
Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 2,3,4,8-tetranitro- (CA INDEX NAME)

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, L8 ANSWER 101 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1985:468235 CAPLUS Full-text
 Document Number
            103:68235
 Title
            Effects of the interaction of tannins with coexisting substances. Part III. Relationship of the structures of tannins to the binding activities with hemoglobin and methylene blue
 Author/Inventor
            Okuda, Takuo; Mori, Kazuko; Hatano, Tsutomu
Patent Assignee/Corporate Source
Fac. Pharm. Sci., Okayama Univ., Okayama, 700, Japan
 Source
            Chemical & Pharmaceutical Bulletin (1985), 33(4), 1424-33 CODEN: CPBTAL; ISSN: 0009-2363
Document Type
Journal
Language
English
            The determination of relative astringency (RA) and relative affinity to methylene blue (RMB), based on those of geraniin (RAG and RMBG), shows good reproducibility with small amts. of samples for the estimation of the tannin content of plant exts., and has been applied to the evaluation of the basal activity of 84 tannins and related compds. The values obtained for polyphenols of lower mol. weight, which are not regarded as tannins, were zero or almost zero. An increase of these 2 values of up to about 1.3-1.4 times with increase of mol. weight oplyphenols (polyphenols for longalloylation) was observed for each type of tannin tested. The RMBG determination gives values somewhat larger than the RAG values for hydrolyzable tannins, and rather smaller than the RAG values for condensed tannins.
 Hit Structure
            CAS Registry Number
476-67-5 CAPLUS
            Chemical or Trade Name 6H-Dibenzo[b,d]pyran-1-carboxylic acid, 3,4,8,9,10-pentahydroxy-6-oxo-(CA INDEX NAME)
                                                             OH
                                                                                         ОН
                                            CO2H
                    HO
                                                                    THERE ARE 41 CAPLUS RECORDS THAT CITE THIS RECORD (41 CITINGS)
            OS.CITING REF COUNT:
L8 ANSWER 102 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1985;149046 CAPLUS Full-text
 Document Number
            102:149046
 Title
            Cleavage of the carboxyl group in 3,8-dinitro-6-oxo-6H-dibenzo[b,d]pyran-10-carboxylic acid in the presence of DMSO and DMF
 Author/Inventor
            Andrievskii, A. M.; Sidorenko, E. N.; Poplavskii, A. N.; Dyumaev, K. M.
Patent Assignee/Corporate Source
Nauchno-Issled. Inst. Org. Poluprod. Krasitelei, Moscow, 103787, USSR
 Source
Khimiya Geterotsiklicheskikh Soedinenii (1984 ), (12), 1690-1 CODEN: KGSSAQ; ISSN: 0453-8234 Document Type

Journal
 Language
Russian
Abstract
In Me2SO or DMF the lactone ring of the title compound (I; R = CO2H) opened to give biphenyl derivative II. Boiling these solns. gave I (R = H, OH).
 Hit Structure
            CAS Registry Number
63636-78-2 CAPLUS
            Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-dinitro- (CA INDEX NAME)
                                                                                             NO2
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CAS Registry Number 95613-33-5 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 10-hydroxy-3,8-dinitro- (CA INDEX NAME)



CAS Registry Number 95613-31-3 CAPLUS

Chemical or Trade Name
6H-Dibenzo[b,d]pyran-10-carboxylic acid, 3,8-dinitro-6-oxo- (CA INDEX NAME)

THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

ុL8 ANSWER 103 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1985:113215 CAPLUS <u>Full-text</u> Document Number

102:113215

Title The competition between electrocyclic reaction and [1,5] sigmatropic reaction in the thermolysis of 1,1-disubstituted benzocyclobutenes

Author/Inventor

Shishido, Kozo; Ito, Masahiro; Shimada, Shinichi; Fukumoto, Keiichiro; Kametani, Tetsuji

Patent Assignee/Corporate Source Pharm. Inst., Tohoku Univ., Sendai, 980, Japan Source

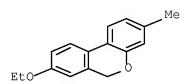
Chemistry Letters (1984), (11), 1943-6 CODEN: CMLTAG; ISSN: 0366-7022

Document Type Journal Language English

a
Thermolysis of 1-acyl-1-alkylbenzocyclobutenes (I; R = H, Me, HO; R1 = vinyl, Ac, 1,3-dioxolan-2-yl) gave predominantly the corresponding isochromenes II via Z-conformer of the o-quinodimethane in the transition state
Similarly spirobenzocyclobutenes, e.g., III, also gave isochromene derivs. predominantly. Hit Structure

CAS Registry Number 95257-10-6 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran, 8-ethoxy-3-methyl- (CA INDEX NAME)



OS.CITING REF COUNT: 25 THERE ARE 25 CAPLUS RECORDS THAT CITE THIS RECORD (25 CITINGS)

L8 ANSWER 104 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1985:92966 CAPLUS <u>F成物</u> Document Number 102:92966

Title

3,4,8,9,10-Pentahydroxy-dibenzo[b,d]pyran-6-one from Tamarix nilotica

3,4,8,9,10-remain, arch, Author/Inventor Nawwar, M. A. M.; Souleman, A. M. A. Patent Assignee/Corporate Source Natl. Res. Cent., Cairo, Egypt

Source

Phytochemistry (Elsevier) (1984), 23(12), 2966-7 CODEN: PYTCAS; ISSN: 0031-9422

Document Type Journal

Language English

A new natural product, 3,4,8,9,10-pentahydroxy-dibenzo-[b,d]pyran-6-one (I), was isolated from the flowers of T. nilotica, along with the known compound ellagic acid, 2,3,7,8-tetrahydroxy[1]benzopyrano[5,4,3- cde][1]

benzopyran-5,10-dione. The structure of I was determined by chemical and spectroscopic methods. The 13C NMR spectrum of ellagic acid was recorded and assigned. Hit Structure

CAS Registry Number 91485-02-8 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,4,8,9,10-pentahydroxy- (CA INDEX NAME)

OS.CITING REF COUNT: 17 THERE ARE 17 CAPLUS RECORDS THAT CITE THIS RECORD (17 CITINGS)

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L8 ANSWER 105 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN
Accession Number
1984:486224 CAPLUS <u>Fuli-text</u>
```

Document Number 101:86224

Title

Plant phenols as in vitro inhibitors of glutathione S-transferase(s) Author/Invento

Das, Mukul; Bickers, David R.; Mukhtar, Hasan

Patent Assignee/Corporate Source
Dep. Dermatol., Case West. Reserve Univ., Cleveland, OH, 44106, USA

Source Biochemical and Biophysical Research Communications (1984), 120(2), 427-33 CODEN: BBRCA9: ISSN: 0006-291X

Document Type Journal

Language

English

Ellagic acid (I), a commonly occurring plant phenol, was shown to be a potent in vitro inhibitor of glutathione S- transferase (II) activity. Other plant phenols, such as ferulic acid, caffeic acid, and chlorogenic acid also showed a concentration-dependent inhibition of II. The I50 values of I, caffeic acid, chlorogenic acid, and ferulic acid were 8.3, 14.0, 20.0, and 22.0 + 10-5 M, resp., suggesting that I is the most potent inhibitor of all the 4 studied plant phenols. At 55 µM I, significant inhibition (35-47%) was observed with II activity toward 1-chloro-2,4-dinitrobenzeree (III), p-nitrobenzyl chloride, and 1,2-epoxy-3-(p-nitrophenoxy)propane as substrates. Inhibited II activity in a noncompetitive manner. Other phenolic compdx, (purpurogallin, quercetin, alizarin, and monolactone) also showed a concentration-dependent inhibition of II with I50 values of 0.8, 1.0, 8.0, and 16.0 + 10-5 M, resp. These inhibitors of II should be useful in studying the in vitro enzyme-mediated reactions of exogenous and endogenous

Hit Structure

CAS Registry Number 91485-02-8 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,4,8,9,10-pentahydroxy- (CA INDEX NAME)

OS.CITING REF COUNT: 24 THERE ARE 24 CAPLUS RECORDS THAT CITE THIS RECORD (24 CITINGS)

L8 ANSWER 106 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number 1984:138828 CAPLUS <u>Full-text</u>

Title

Cannabis. Part 27. Synthesis of 8-, 10-, and 11-oxygenated cannabinols

Author/Inventor

Novak, Jiri; Salemink, Cornelis A.

Patent Assignee/Corporate Source

Lab. Org. Chem., State Univ. Utrecht, Utrecht, Neth.

Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1983), (12), 2867-71 CODEN: JCPRB4; ISSN: 0300-922X Document Type

Language English

Abstract

Carboxylic acid I (R = CO2H) (II) was prepared in 8 steps from 2,4-HOBrC6H3COMe. Reduction of II with LiAlH4 gave 11-hydroxycannabinol (I; R = CH2OH) (III). II and III are metabolities of cannabinol in man. I (R = CHO), prepared by oxidation of III, and IV (R = OH, R1 = H; R = H, R1 = OH) prepared analogously from 2,5,4- and 2,3,4-(MeO)2MeC6H2CO2H, resp., are possible cannabinol metabolities. In each preparation the key step was the regiospecific Grignard reaction of aryldihydroxazoles V (R = R1 = H; R ≠ R1 = H, OMe; R2 = OMe) with 3,5,4-(MeO)2BrC6H2(CH2)4Me to give V [R, R1 as before, R2 = C6H2(OMe)2(CH2)4Me-2,6,4]. Hit Structure

CAS Registry Number 89368-18-3 CAPLUS

Chemical or Trade Name
6H-Dibenzo[b,d]pyran-6-one, 1,8-dihydroxy-9-methyl-3-pentyl- (CA INDEX NAME)

CAS Registry Number 53865-22-8 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-1,8-diol, 6,6,9-trimethyl-3-pentyl- (CA INDEX NAME)

OS.CITING REF COUNT: THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L8 ANSWER 107 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN

1984:20400 CAPLUS Full-text

100:20400

Title

Synthesis of condensed tannins. Part 10. Dioxane-linked profisetinidins

Young, Desmond A.; Ferreira, Daneel; Roux, David G.

Patent Assignee/Corporate Source

Dep. Chem., Univ. Orange Free State, Bloemfontein, 9300, S. Afr.

Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1983), (9), 2031-5 CODEN: JCPRB4; ISSN: 0300-922X

Document Type Journal Language English

Abstract

The dimeric bis(trihydroxyflavan) I (R = H, R1 = β-H) was isolated from the heartwood of Acacia mearnsii and characterized as its hexamethyl ether I (R = Me, R1 = β-H) (II). II and its isomer I (R = Me, R1 = α-H) were prepared by self-condensation of the tri-Me ether of (+)-mollisacacidin with BF3.Et2O in dioxane at room temperature for 4.5 h. Simple and complex dibenzo-α-pyrones were also obtained from the heartwood extract Hit Structure

CAS Registry Number 88038-06-6 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8,9-trimethoxy- (CA INDEX NAME)

THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS) OS.CITING REF COUNT:

L8 ANSWER 108 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1983:605818 CAPLUS Full-text

Document Number 99:205818

Inhibitory effects of crude drugs on proteases. Tannins and related polyphenols

Author/Inventor

Okuda, Takuo; Yoshida, Takashi; Hatano, Tsutomu; Kuwahara, Masaaki; lida, Seiichi

Patent Assignee/Corporate Source
Fac. Pharm. Sci., Okayama Univ., Okayama, Japan

Source Wakanyaku Shinpojumu, [Kiroku] (1982), 15, 111-18 CODEN: WSHIDO; ISSN: 0301-9993

Document Type Journal

Language

Japanese

of the basis of the observation that most of the crude drugs which strongly inhibit proteases are rich in tannin, the correlation of antiplasmin activity and tannin content was investigated for each crude drug and tannin. The inhibitory activity (RIp) was found generally proportional to the tannin content nRA). However, some differences of the ratio of RIp to RA were exhibited, depending on the type of tannin contained in each crude drug. The ratios of ellagitannins were generally higher than that of tannin acid JP, which is composed of gallotanins, and those of some condensed tannins. The extract of the rhizome of Sanguisorbas difficinalis, which is rich in condensed tannin, showed an exceptionally high ratio of RIp to RA. Upon fractionation, the constituents of some fractions from S. officinalis which showed large RIp values and small RA values were found to be ellagic acid [476-67-8]. Apparently, the tannins and the polyphenols derivable from heavily/doxydiphenic acid possess strong inhibitory activity of ellagitannins on plasmin is stronger than that of the other tannins, regardless of the substrate; but ellagic acid is active only in expts. employing plasmin and fibrin.

Hit Structure

CAS Registry Number 476-67-5 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-1-carboxylic acid, 3,4,8,9,10-pentahydroxy-6-oxo-(CA INDEX NAME)

, L8 ANSWER 109 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1983:198022 CAPLUS Full-text

Document Number

98:198022

Title

Diphenyldiamines with o,o'-attached lactone radical

Author/Inventor

Migachev, G. I.; Terent'ev, A. M.; Zelenina, E. N.

Patent Assignee/Corporate Source USSR

Source

U.S.S.R. From: Otkrytiya, Izobret., Prom. Obraztsy, Tovarnye Znaki 1982, (31), 126. CODEN: URXXAF

Document Type Patent

Language Russian

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
SU 952845	A1	19820823	SU 1979-2804693	19790725

Abstract

Title lactones I (R, R1 = H, CO2H or form groups COO or OCO) were prepared by heating nitrocarboxylic acids II (R2, R3 = H, NO2, CO2H) at 100-250° in a polar aprolic solvent. After the evolution of NO has stopped, the reaction mixture is hydrogenated over Raney Ni at 70-150°20-90 atmospheric

CAS Registry Number 84487-40-1 CAPLUS

Chemical or Trade Name
6H-Dibenzo[b,d]pyran-1-carboxylic acid, 3,8-diamino-6-oxo- (CA INDEX NAME)

L8 ANSWER 110 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1982:492088 CAPLUS Full-text

Document Number 97:92088

Synthesis and reactions of 3,8,10-trinitro-6H-dibenzo[b,d]pyran-6-one in DMSO and DMF

Author/Inventor Andrievskii, A. M.; Poplavskii, A. N.; Dyumaev, K. M.

Patent Assignee/Corporate Source
Nauchno-Issled. Inst. Org. Poluprod. Krasitelei, Moscow, 103787, USSR

Source

Khimiya Geterotsiklicheskikh Soedinenii (1982), (5), 703 CODEN: KGSSAQ; ISSN: 0453-8234

Document Type Journal

Language Russian

Abstract
Oxidation of I with 30% H2O2-H2SO4 gave 76% II, which on heating in Me2SO gave III (R = OH) and in DMF gave III (R = Me2N). The same products were formed by heating 2,3,5-[2,4-(O2N)2C6H3](O2N)2C6H3[(O2N)2C6H2CO2H in the Hit Structure

CAS Registry Number 82766-04-9 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8,10-trinitro- (CA INDEX NAME)

THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS) OS.CITING REF COUNT:

L8 ANSWER 111 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1982:223258 CAPLUS <u>Full-text</u>

Document Number 96:223258

Title

Preparation of an active substance having medicinal properties from plants belonging to the Melastomataceae family

Author/Inventor

Shah, Virbala; De, Souza Noel Hohn; Bhat, Sujata Vasudev; Domauer, H; Lakdawala, Aftab Dawoodbhai; Dahadwalla, Alihussein Nomanbha

Hoechst Pharmaceuticals Ltd., India

Source

Indian, 15 pp. CODEN: INXXAP

Document Type Patent

Language English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
IN 148938	A1	19810725	IN 1978-B0168	19780607

Abstract

Tharmacol, active compds, I, II and III (R1, R2, R3 = H, Na+, K+, NH4+, glucosammonium, triethytammonium or ethanolammonium) are isolated from Metastomatoceae plant family and have antiallergic and bronchospasmolytic properties. Dried and powdered shoots of Osbeckia Stellata were repeatedly extracted with H2O at 60-70° for 5 h. The mixture was filtered and the filtrates were freeze-dried to give a brown powder. This was then acidified with 1 N HCI and filtered. The residual solid was washed repeatedly with H2O fill the pH of the washings was 4-6 and then the washings were dried in vacuo to yield a powder. Alkali treatment, followed by adjustment of the pH to 7 with CO2 and freeze-drying of the solution gave a light brown powder. The IR spectrum of the substance is given. This active substance provided 75% protection against passive cutaneous anaphylaxis in laboratory animals (5 mg/kg).

Hit Structure

CAS Registry Number 476-67-5 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-1-carboxylic acid, 3,4,8,9,10-pentahydroxy-6-oxo-(CA INDEX NAME)

OS.CITING REF COUNT:

THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L8 ANSWER 112 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1982:19421 CAPLUS <u>Full-text</u>

Document Number

96:19421 Title

Constituents of Eupomatia species. VII. Dienone-phenol and dienol-benzene rearrangements in the eupodienone-1 series

Author/Inventor

Bowden, Bruce F.; Read, Roger W.; Taylor, Walter C.

Patent Assignee/Corporate Source
Dep. Org. Chem., Univ. Sydney, Sydney, 2006, Australia

Source

Australian Journal of Chemistry (1981), 34(4), 799-817 CODEN: AJCHAS; ISSN: 0004-9425

Document Type Journal Language English

Abstract

Rearrangement of eupodienone-1 (I) and derivs., including certain dienols, under a variety of acidic conditions produced dibenzocyclooctene derivs. Treatment of I with H2SO4-Ac2O at 0° gave II. Also, treatment of dienol III in aqueous dioxane with H2SO4 gave the alc. IV. Spectroscopic evidence and chemical degradation showed that in the rearrangements alkyl rather than arryl group migration had occurred. The stereochem. of the products is discussed.

Hit Structure

CAS Registry Number 80141-08-8 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 2,3,4,8,9,10-hexamethoxy- (CA INDEX NAME)

```
L8 ANSWER 113 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN
Accession Number
1981;511699 CAPLUS Full-text
Document Number
95:111699
Title
Alnuslin, a novel ellagitannin from Alnus sieboldiana fruits
Author/Inventor
Yoshida, Takashi; Memon, M. Usman; Okuda, Takuo
Patent Assignee/Corporate Source
Fac. Pharmaceut. Sci., Okayama Univ., Okayama, Japan
Source
Heterocycles (1981), 16(7), 1085-8 CODEN: HTCYAM; ISSN: 0385-5414
Document Type
Journal
Language
English
Abstract
A new ellagitannin, named alnuslin (I), has been isolated from the fruits of A. sieboldiana. The structure was elucidated by chemical and spectral means.
Hit Structure

CAS Registry Number
78837-02-2 CAPLUS

Chemical or Trade Name
Alnusin, trideca-0-methyl- (9CI) (CA INDEX NAME)

CM
1
```

CM 2
CRN 78837-00-0
CMF C28 H26 014

CRN 78837-01-1 CMF C26 H30 014

```
CAS Registry Number 78837-04-4 CAPLUS

Chemical or Trade Name Alnusiin, trideca-O-methyl-, acetate (9CI) (CA INDEX NAME)

CM 1

CRN 78837-03-3

CWF C28 H32 015
```

CM 2

CRN 78837-00-0 CMF C28 H26 014

CAS Registry Number 79026-29-2 CAPLUS

Chemical or Trade Name $\beta\text{-Alnusiin, tetradeca-O-methyl- (9CI)}$ (CA INDEX NAME)

CM 1

CRN 79026-28-1 CMF C27 H32 014

CM 2

CRN 78837-00-0 CMF C28 H26 O14

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L8 ANSWER 114 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1980:615211 CAPLUS Full-text

Document Number 93:215211

Title

The metabolism of ellagic acid in the rat

The metabolism of eladic action in the rat Author/Inventor Doyle, B.; Griffiths, L. A. Patent Assignee/Corporate Source Dep. Biochem., Univ. Birmingham, Birmingham, B15 2TT, UK

Xenobiotica (1980), 10(4), 247-56 CODEN: XENOBH; ISSN: 0049-8254

Document Type
Journal
Language
English

Abstract

In rats, 10% of the dose of ellagic acid (I) [476-66-4] (100 mg, orally) was excreted as 3,8-dihydroxy-6H-dibenzo[b,d]pyran-6-one (II) [1143-70-0] in urine and feces. A second unidentified metabolite was present in urine and feces. These metabolites were not formed in germ-free rats but were formed when I was incubated with microorganisms from rat gastrointestinal tract, showing a microfloral origin. After i.p. administration of I (50 mg) a 3rd metabolite was present in urine. No unchanged I was present in urine rate or feces of normal rats, but small amts, were present in feces of germ-free rats. After oral administration of I, 2 conjugates of II were present in bile, whereas i.p. administration resulted in biliary excretion of 3 conjugates of an unidentified metabolite.

Hit Structure

CAS Registry Number 1143-70-0 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-dihydroxy- (CA INDEX NAME)

THERE ARE 29 CAPLUS RECORDS THAT CITE THIS RECORD (29 CITINGS) OS.CITING REF COUNT: 29

L8 ANSWER 115 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1980:58501 CAPLUS Full-text Document Number 92:58501

Title

2,7-Bis(alkylaminoalkoxy)-9-phenanthrol and alkoxy ethers

Author/Inventor

Meyer, Donald R.; Sill, Arthur D.; Tieman, Paul L.

Patent Assignee/Corporate Source Richardson-Merrell Inc., USA

U.S., 13 pp. CODEN: USXXAM

Document Type Patent

Language English

Patent In

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4169897	A	19791002	US 1976-740804	19761111
ZA 7308207	A	19750226	ZA 1973-8207	19731023
AU 7361883	A	19750501	AU 1973-61883	19731026
CA 1042439	A1	19781114	CA 1973-184541	19731029

GB	1420377	A	19760107	GB 1973-58266	19731217
FR	2211242	A1	19740719	FR 1973-45518	19731219
JР	49088852	A	19740824	JP 1973-141923	19731220
US	4059702	A	19761122	US 1976-740806	19761111
JР	55089262	A	19800705	JP 1978-156767	19781219
JP	58014432	В	19830318		

Hit Structure

CAS Registry Number 53395-17-8 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-bis[2-(dimethylamino)ethoxy]-, bydrochloride (1:2) (CA INDEX NAME)

HCl

OS.CITING REF COUNT:

THERE ARE 10 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS) 10

L8 ANSWER 116 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1980:41620 CAPLUS Full-text

Document Number

92:41620

Study in a series of biphenyl-2-carboxylic and fluorene-4-carboxylic acid derivatives

Author/Inventor

Migachev, G. I.
Patent Assignee/Corporate Source
Nauchno-Issled. Inst. Plast. Mass, Moscow, USSR Source

Zhurnal Vsesoyuznogo Khimicheskogo Obshchestva im. D. I. Mendeleeva (1979), 24(4), 395-7 CODEN: ZVKOA6; ISSN: 0373-0247 Document Type

Language Russian

Nitration of 2-PhC6H4CQ2H and 4-fluorenecarboxylic acid with HNO3 (d. 1.42-1.50) followed the same orientation paths to give, resp. 4,2-O2N[2,4-(O2N)2C6H3]C3H3CO2H and 1. Several reduction-ring closure reactions of some of the products were studied; thus, I with Fe gave II and with Zn gave III. Hit Structure

CAS Registry Number 63636-78-2 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-dinitro- (CA INDEX NAME)

OS.CITING REF COUNT:

THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

```
, L8 ANSWER 117 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1979:439035 CAPLUS Full-text
 Document Number
            91:39035
 Title
            Studies of ortho-substituted derivatives of biphenyl. I. Nitration of biphenyl-2-carboxylic acid and chemical properties of its nitro-substituted derivatives
Author/Inventor
Migachev, G. I.
Patent Assignee/Corporate Source
Nauchno-Issled. Inst. Plast. Mass, Moscow, USSR
 Source
           Zhurnal Organicheskoi Khimii (1979), 15(3), 567-72 CODEN: ZORKAE; ISSN: 0514-7492
Document Type
Journal
Language
            Russian
            nt Mitration of 2-PhC6H4CO2H with HNO3 (d. 1.42, 1.46 and 1.51) afforded 7:2 2- and 4-O2NC6H4C6H4CO2H-2, 7:4 2- and 4-O2NC6H4C6H3(CO2H)NO2-2,4 and 2,4-(O2N)2C6H3C6H3(CO2H)NO-2,4, resp. The high orth/para ratio in the mononitration product resulted from the participation of the CO2H group in converting intermediate non-occupies. Reduction of the o-nitro derives with Fe or SnCl2 afforded phenanthridinones, and heating the o-nitro derives with DMF gave dibenzo[b,d]pyran-6-ones.
 Hit Structure
            CAS Registry Number
63636-78-2 CAPLUS
            Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-dinitro- (CA INDEX NAME)
                                                                                             NO2
            OS.CITING REF COUNT:
                                                                      THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)
 L8 ANSWER 118 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1978:182782 CAPLUS Full-text
 Document Number
            88:182782
 Title
            Antiallergic 9-oxo-11-hydroxy-5H,9H-[2]benzopyrano[4,3-g][1]benzopyrans
 Author/Inventor
Devlin, John P.; Bauen, Armin; Possanza, Genus J.; Stewart, P. Brian
Patent Assignee(Corporate Source
Pharma Res. Canada Ltd., Pointe Claire, QC, Can.
 Source
            Journal of Medicinal Chemistry (1978), 21(5), 480-3 CODEN: JMCMAR; ISSN: 0022-2623
Document Type
Journal
Language
English
 Abstract
            at

Nine title compds. I (R = H or Br, R1 = H, halo, OH, OMe, OPr, or OCH2CH2OH, and R2 = H or Me) were synthesized by condensation of the appropriate 2-acetyl-3-hydroxy-6H-dibenzo[b,d]pyran with diethyl carbonate in the
presence of NaH. Several I, in addition to being potent inhibitors of the passive cutaneous anaphylaxis reaction of rats against egg albumin challenge, blocked the effects of several mediators of anaphylaxis in isolated smooth
muscle prepns.
 Hit Structure
            CAS Registry Number
52156-88-4 CAPLUS
            Chemical or Trade Name Ethanone, 1-(3-hydroxy-8-methoxy-6,6-dimethyl-6H-dibenzo[b,d]pyran-2-yl)-(CA INDEX NAME)
                                                                                              ОН
```

MeO

CAS Registry Number 52156-89-5 CAPLUS

Chemical or Trade Name Ethanone, 1-(8-chloro-3-hydroxy-6,6-dimethyl-6H-dibenzo[b,d]pyran-2-yl)-(CA INDEX NAME)

CAS Registry Number 52156-92-0 CAPLUS

Chemical or Trade Name
Ethanone, 1-(9-bromo-3-hydroxy-8-methoxy-6,6-dimethyl-6H-dibenzo[b,d]pyran-2-yl)- (CA INDEX NAME)

CAS Registry Number 52156-93-1 CAPLUS

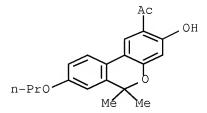
Chemical or Trade Name Ethanone, 1-(8-fluoro-3-hydroxy-6,6-dimethyl-6H-dibenzo[b,d]pyran-2-yl)-(CA INDEX NAME)

CAS Registry Number 52156-95-3 CAPLUS

Chemical or Trade Name Ethanone, 1-(3,8-dihydroxy-6,6-dimethyl-6H-dibenzo[b,d]pyran-2-yl)- (CA INDEX NAME)

CAS Registry Number 66432-00-6 CAPLUS

Chemical or Trade Name Ethanone, 1-(3-hydroxy-6,6-dimethyl-8-propoxy-6H-dibenzo[b,d]pyran-2-yl)-(CA INDEX NAME)



CAS Registry Number 66432-01-7 CAPLUS

Chemical or Trade Name Ethanone, 1-[3-hydroxy=8-(2-hydroxy=thoxy)-6,6-dimethyl-6H-dibenzo[b,d]pyran-2-yl]- (CA INDEX NAME)

L8 ANSWER 119 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1977:502120 CAPLUS Full-text Document Number 87:102120

Title

Synthesis of substituted derivatives of 6H-dibenzo[b,d]pyran-6-one

Synthesis of Section 2015

Author/Inventor Migachev, G. I.; Andrievskii, A. M.; Efimova, L. V.

Patent Assignee/Corporate Source
Nauchno-Issled. Inst. Org. Poluprod. Krasitelei, Moscow, USSR

Source
Khimiya Geterotsiklicheskikh Soedinenii (1977), (5), 703-4 CODEN: KGSSAQ; ISSN: 0132-6244

Document Type Journal

Language Russian

Abstract

Refluxing acids I (R, R2 = H, NO2; R4 = H, CO2H) in quinoline gave 34-97% dibenzopyranones. Hit Structure

CAS Registry Number 63636-77-1 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-1-carboxylic acid, 3,8-dinitro-6-oxo- (CA INDEX NAME)

CAS Registry Number 63636-78-2 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-dinitro- (CA INDEX NAME)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L8 ANSWER 120 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1977:105196 CAPLUS <u>Full-text</u>
Document Number 86:105196

Title

Mass spectrometry of the oxidation products of Δ1- and Δ6-tetrahydrocannabinols Author/Inventor Inayama, Seiichi; Sawa, Aiko; Hosoya, Eikichi

Patent Assignee/Corporate Source Sch. Med., Keio Univ., Tokyo, Japan

Chemical & Pharmaceutical Bulletin (1976), 24(9), 2209-18 CODEN: CPBTAL; ISSN: 0009-2363

Document Type
Journal
Language
English

Abstract

The mass spectra of $\Delta 1$ -(I) and $\Delta 6$ -tetrahydrocannabinol (II) and a number of their derivs, were determined. Structure correlations and principal fragmentation pathways for these compds, were studied with the aid of high-resolution mass spectrometry and of acetyl-d3 derivs. A typical fragmentation pattern was observed in spectra of both the I and the II series.

Hit Structure

CAS Registry Number 53865-22-8 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-1,8-diol, 6,6,9-trimethyl-3-pentyl- (CA INDEX NAME)

$$\begin{array}{c} \text{HO} \\ \text{Me} \\ \text{HO} \end{array}$$

CAS Registry Number 62042-02-8 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-1,8-diol, 6,6,9-trimethyl-3-pentyl-, 1,8-diacetate (CA INDEX NAME)

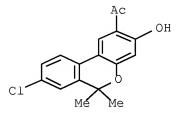
```
Accession Number
1977:66543 CAPLUS <u>Fuil-text</u>
 Document Number
             86:66543
 Title
             Urinary sediments in sheep feeding on estrogenic clover. V. Seasonal changes in the excretion of components of calculi and sediments
 Author/Invento
             Nottle, M. C.
 Patent Assignee/Corporate Source
Anim. Health Lab., West. Aust. Dep. Agric., South Perth, Australia
 Source
             Australian Journal of Agricultural Research (1976), 27(6), 867-71 CODEN: AJAEA9; ISSN: 0004-9409
Document Type
Journal
 Language
             English
             other components of urinary calculi and sediments were analyzed from early July to late October in 6 sheep grazing on pasture with estrogenic Tritolium subterraneum. Levels of these components were lowest in July-August and reached their peaks during the later months. The detected ranges for formononetin [485-72-3] were 0.3-2.7 mg %, for equal [531-95-3] 4-108 mg %, 4-O-methylequal [61514-94-1] traces to 39 mg %. Also detected throughout the exptl. period were urolithin A [1143-70-0], urolithin B [1139-83-9], indirubin [479-41-4], and indigotin [482-89-3]. Biochanin A [491-80-5] was detected only in September-October.
 Hit Structure
             CAS Registry Number
1143-70-0 CAPLUS
             Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-dihydroxy- (CA INDEX NAME)
                                                                                               ОН
                                                                          THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)
             OS.CITING REF COUNT:
 L8 ANSWER 122 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1977:50484 CAPLUS Fu8-text
 Document Number
             86:50484
 Title
             Synthesis and structure-activity relations of 5H,11H-[2]benzopyrano[4,3-g][1]benzopyran-9-carboxylic acids
 Author/Inventor
             Devlin, John P.; Freter, Kurt; Stewart, P. Brian
 Patent Assignee/Corporate Source
Pharma-Res. Canada Ltd., Pointe Claire, QC, Can.
 Source
             Journal of Medicinal Chemistry (1977), 20(2), 205-9 CODEN: JMCMAR; ISSN: 0022-2623
 Document Type
Journal
Language
English
             at A series of 25 title compds. [I:R1 = H, OMe, Br; R2 = H, Cl, F, OH, OMe, OPr, OAc, NO2, SO3H, NH2, O(CH2)2OH; R3 = H, OMe; R4 = H, Me, Bu, O; R5 = H, Cl, NO2, OMe, OH, NH2; R6 = H, Me, OH] was prepared by the condensation of the appropriate 2-acetyl-3-hydroxy-6H-dibenzolb.d/pyran derivative with di-Et oxalate [95-92-1], followed by ring closure and acid hydrolysis. Many of the compds. are potent inhibitors of the passive cutaneous anaphylaxis reaction of rats againt egg albumin challenge. Structure-activity relations are discussed.
 Hit Structure
             CAS Registry Number
52156-88-4 CAPLUS
             Chemical or Trade Name Ethanone, 1-(3-hydroxy-8-methoxy-6,6-dimethyl-6H-dibenzo[b,d]pyran-2-yl)-(CA INDEX NAME)
                                                                                                   ОН
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MeO' Mé

L8 ANSWER 121 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN

CAS Registry Number 52156-89-5 CAPLUS

Chemical or Trade Name Ethanone, 1-(8-chloro-3-hydroxy-6,6-dimethyl-6H-dibenzo[b,d]pyran-2-yl)-(CA INDEX NAME)



CAS Registry Number 52156-91-9 CAPLUS

Chemical or Trade Name Ethanone, 1-(3-hydroxy-8,9-dimethoxy-6,6-dimethyl-6H-dibenzo[b,d]pyran-2-yl)- (CA INDEX NAME)

CAS Registry Number 52156-92-0 CAPLUS

Chemical or Trade Name Ethanone, 1-(9-bromo-3-hydroxy-8-methoxy-6,6-dimethyl-6H-dibenzo[b,d]pyran-2-yl)- (CA INDEX NAME)

CAS Registry Number 52156-93-1 CAPLUS

Chemical or Trade Name Ethanone, 1-(8-fluoro-3-hydroxy-6,6-dimethyl-6H-dibenzo[b,d]pyran-2-yl)-(CA INDEX NAME)

.L8 ANSWER 123 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1976:483149 CAPLUS Full-text
Document Number 85:83149

Title

Shilajit. I. Chemical constituents
Author/Inventor
Ghosal, S.; Reddy, J. P.; Lal, V. K.

Patent Assignee/Corporate Source Dep. Pharm., Banaras Hindu Univ., Banaras, India

Source

Journal of Pharmaceutical Sciences (1976), 65(5), 772-3 CODEN: JPMSAE; ISSN: 0022-3549

Language English

Shilajit [12040-71-0] extraction with solvents of graded polarity yielded triterpenes, sterols, aromatic carboxylic acids, ellagic acid [476-66-4], 3.4-benzocoumarins, and \(\alpha\)-amino acids. Further separation and characterization led to the identification of euphol [514-47-6], taraxerol [127-22-0], sitosterol [83-46-5], 2 partially characterized triterpenes, a sterol, benzoic acid [65-85-0], m-hydroxybenzoic acid [99-06-9], 7-hydroxy-3.4-benzocoumarin [1143-62-0], 2',7-dihydroxy-3.4-benzocoumarin [1143-62-0], 2',7-dihydroxy-3.4-benzocoumarin [1143-62-0], 2',7-dihydroxy-3.4-benzocoumarin [1143-62-0], 2',7-dihydroxy-3.4-benzocoumarin [1143-70-0], 2-phenolic compds., and 18 free amino acids. A similar component pattern was seen for Euphorbia royleana latex suggesting shilajit originated from this source.

Hit Structure

CAS Registry Number 1143-70-0 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-dihydroxy- (CA INDEX NAME)

OS.CITING REF COUNT: 18 THERE ARE 18 CAPLUS RECORDS THAT CITE THIS RECORD (19 CITINGS)

L8 ANSWER 124 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number 1976:478023 CAPLUS <u>Full-text</u>

Document Number

Title

Derivatives of 6(5H)-phenanthridinone

Author/Inventor
Meyer, Donald R.; Sill, Arthur D.

Patent Assignee/Corporate Source Richardson-Merrell Inc., USA

Source U.S., 13 pp. Division of U.S. 3,859,312. CODEN: USXXAM Document Type

Patent Information

in citricatori				
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3953455	A	19760427	US 1974-505662	19740913
US 3859312	A	19750107	US 1972-317146	19721221
CA 1042443	A1	19781114	CA 1973-184536	19731029
IL 43669	A	19780831	IL 1973-43669	19731121
GB 1421075	A	19760114	GB 1973-58261	19731217
FR 2211237	A1	19740719	FR 1973-45513	19731219
JP 49088848	A	19740824	JP 1973-141916	19731220

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Hit Structure

CAS Registry Number 53405-25-7 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-3,8-dicarboxylic acid, 6-oxo- (CA INDEX NAME)

CAS Registry Number 53405-26-8 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-3,8-dicarboxylic acid, 6-oxo-, 3,8-bis[3-(diethylamino)propyl] ester, hydrochloride (1:2) (CA INDEX NAME)

●2 HCl

L8 ANSWER 125 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1976:180085 CAPLUS Full-text Document Number 84:180085

Title Derivatives of 9-phenanthrene

Defivatives 5.5.

Author/Inventor
Meyer, Donald R.; Sill, Arthur D.
Patent Assignee/Corporate Source
Richardson-Merrell Inc., USA

U.S., 12 pp. Division of U.S. 3,859,312. CODEN: USXXAM

Language English

I	inomaton					
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
	US 3933893	A	19760120	US 1974-505661	19740913	
	US 3859312	A	19750107	US 1972-317146	19721221	
	CA 1042443	A1	19781114	CA 1973-184536	19731029	
	IL 43669	A	19780831	IL 1973-43669	19731121	
	GB 1421075	A	19760114	GB 1973-58261	19731217	
	FR 2211237	A1	19740719	FR 1973-45513	19731219	
	JP 49088848	A	19740824	JP 1973-141916	19731220	

The fluorenones I (R = dialkylamino, morpholino, piperidino, dialkylamino; n = 2, 3, 5) were prepared by reaction of 9-oxofluorene-2,7-dicarboxyl chloride with R(CH2)nOH; ring expansion of I or 9-oxofluorene-2,7-dicarboxylic acid by HN3, CH2N2, and H2O2-H2SO4 yielded II (X = NH, CH2, O; resp.). II (X = O) extended the survial time of mice infected with encephalomyocarditis virus. Hit Structure

CAS Registry Number 53405-25-7 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-3,8-dicarboxylic acid, 6-oxo- (CA INDEX NAME)

CAS Registry Number 53405-26-8 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-3,8-dicarboxylic acid, 6-oxo-, 3,8-bis[3-(diethylamino)propyl] ester, hydrochloride (1:2) (CA INDEX NAME)



L8 ANSWER 126 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1976:164566 CAPLUS <u>Full-text</u>

Document Number 84:164566

Synthesis of 2-arylnaphthalenes and dibenzocoumarins. II. Aromatization of tetrahydrodibenzocoumarins by palladium on charcoal: Synthesis of 2-arylnaphthalenes and dibenzocoumarins. Author/Inventor

Author/Invention
Chebaane, Khalifa; Guyot, Michele; Molho, Darius
Patent Assignee/Corporate Source
Lab. Chim., Mus. Natl. Hist. Nat., Paris, Fr.

Source

Bulletin de la Societe Chimique de France (1975), (11-12, Pt. 2), 2521-6 CODEN: BSCFAS; ISSN: 0037-8968 Document Type

Language French

The Caromatization of dibenzocoumarins I (R = H, 8-OMe, 9-OMe, 10-OMe, 11-OMe, R1 = H, 4-OMe, 4-Me, 5-Me) gave the arylnaphthalenes II as well as III. The degree of ring cleavage and decarboxylation depended on the reaction conditions. The benzocoumarins IV (R2 = Me, OMe, R3 = OMe, R4 = H; R2 = OH, R3 = H, R4 = H, OMe; R2 = OMe, R3 = R4 = H) were aromatized without decarboxylation; only 4-MeC6H4Ph was formed in <10% yield. The esters V (R = H, 6-OMe; R1 = H, 4-OMe, 4-Me) were also aromatized by Pd-C, but the corresponding acids cyclized at the aromatization temperature

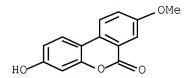
Hit Structure

CAS Registry Number 1143-70-0 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-dihydroxy- (CA INDEX NAME)

CAS Registry Number 35233-17-1 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3-hydroxy-8-methoxy- (CA INDEX NAME)



L8 ANSWER 127 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number 1976:121799 CAPLUS <u>Full-text</u> Document Number

84:121799

Title

2-Carboxy-4-oxo-4H,6H-(2)-benzopyrano-[3,4-f]-(1)- benzopyrans, esters, and salts

Patent Assignee/Corporate Source Boehringer, C. H., Sohn, Fed. Rep. Ger.

Source Neth. Appl., 22 pp. CODEN: NAXXAN

Document Type Patent

Language Dutch Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
NL 7501862	A	19750820	NL 1975-1862	19750217
DP 2407621	21	10750020	DP 1074-2407621	19740210

Benzopyranobenzopyrans I (R = H,OMe,OH,F,SO3H,CI,NO2; R1 = H,OMe,Me; R2 = H,Me,CI,OMe) and some related compds. (20 compds.) were prepared. Thus, acetylation of II (R3 = H) and condensation of II (R3 = Ac) with EiO2CCO2Et gave I (R = R2 = H, R1 = OMe), which at 0.5 mg i.v. in rats caused a 50% decrease in the passive cutaneous anaphylaxis titer. Hit Structure

CAS Registry Number 57394-48-6 CAPLUS

Chemical or Trade Name Ethanone, 1-(8-chloro-3-hydroxy-6,6-dimethyl-6H-dibenzo[b,d]pyran-4-yl)-(CA INDEX NAME)

CAS Registry Number 58630-27-6 CAPLUS

Chemical or Trade Name Ethanedioic acid, 1,2-diethyl ester, compd. with 1-(3-hydroxy-1,8,9-trimethoxy-6,6-dimethyl-6H-dibenzo[b,d]pyran-4-

yl)ethanone (1:1) (CA INDEX NAME)

CM
1

CRN 57394-56-6 CMF C20 H22 O6

CM 2

CRN 95-92-1 CMF C6 H10 04

CAS Registry Number 57394-21-5 CAPLUS

Chemical or Trade Name Ethanone, 1-(3-hydroxy-8-methoxy-6,6-dimethyl-6H-dibenzo[b,d]pyran-4-yl)-(CA INDEX NAME)

CAS Registry Number 58630-23-2 CAPLUS

Chemical or Trade Name Ethanedioic acid, 1,2-diethyl ester, compd. with 1-(8-fluoro-3-hydroxy-6,6-dimethyl-6H-dibenzo[b,d]pyran-4-yl)ethanone (1:1) (CA INDEX NAME)

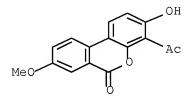
CM 1

CRN 57394-31-7 CMF C17 H15 F 03

CM 2

CRN 95-92-1 CMF C6 H10 O4

CAS Registry Number 57394-24-8 CAPLUS



CAS Registry Number 57394-34-0 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 4-acetyl-8-fluoro-3-hydroxy- (CA INDEX NAME)

CAS Registry Number 57394-51-1 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 4-acetyl-8-chloro-3-hydroxy- (CA INDEX NAME)

, L8 ANSWER 128 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1975:606230 CAPLUS Full-text Document Number 83:206230

Title

Title

2-Carboxy-4-oxo-4H,6H-[2]-benzopyrano-[3,4-f]-[1]- benzopyrans and their esters and salts
Author/Inventor
Devlin, John P.; Stewart, Patrick Brian; Freter, Kurt
Patent Assignee(Corporate Source
Boehringer, C. H., Sohn, Fed. Rep. Ger.
Source

Source
Ger. Offen., 28 pp. CODEN: GWXXBX
Document Type
Patent
Language
German

Patent

Information					
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
DE 2407631	A1	19750828	DE 1974-2407631	19740218	
AT 7500439	A	19770215	AT 1975-439	19750121	
AT 339298	В	19771010			
US 3987186	A	19761019	US 1975-548033	19750207	
BE 825642	A1	19750818	BE 1975-153447	19750217	
NL 7501862	A	19750820	NL 1975-1862	19750217	
JP 50116500	A	19750911	JP 1975-19660	19750217	
GB 1492865	A	19771123	GB 1975-6652	19750217	
FR 2261006	A1	19750912	FR 1975-5005	19750218	
FR 2261006	B1	19780630			
AT 7607823	A	19770215	AT 1976-7823	19761021	
AT 339300	В	19771010			
ed					

Abstract

Benzopyranobenzopyrancarboxylates I (R = R3-R5 = H, R1 = Me, R2 = OMe, OH, F, H, Cl; R = R5 = H, R1 = Me, R2 = R3 = H, OMe, R4 = OMe; R = Bu, R1 = H, Me, R2 = SO3H, R3 = R4 = H, R5 = Cl; R = R2-R5 = H, R1 = Pr; R = Et, R12 = O, R2-R5 = H; R = R3 = R4 = H, R1 = Me, R2 = R4 = H, R1 = Me, R2 = R3 = R4 = H, R1 = Me, R2 = R3 = R4 = H, R1 = Me, R2 = R3 = R4 = H, R1 = Me, R2 = R3 = R4 = H, R1 = Me, R2 = R3 = R4 = H, R1 = Me, R2 = R3 = R4 = H, R1 = Me, R3 = Cl; R3 = R3 = R4 = H, R1 = Me, R4 = OMe) was prepared by condensing the dibenzopyran II with Et oxalate. At 1 mg i.v. it gave 83% inhibition of passive cutaneous anaphylaxis, compared with 20% inhibition obtained with 1 mg 1,3-bis(2-carboxy-5-chromonyloxy)-2-propanol.

Hit Structure

CAS Registry Number 57394-56-6 CAPLUS

Chemical or Trade Name Ethanone, 1-(3-hydroxy-1,8,9-trimethoxy-6,6-dimethyl-6H-dibenzo[b,d]pyran-4-yl)- (CA INDEX NAME)

CAS Registry Number 57394-21-5 CAPLUS

Chemical or Trade Name Ethanone, 1-(3-hydroxy-8-methoxy-6,6-dimethyl-6H-dibenzo[b,d]pyran-4-yl)-(CA INDEX NAME)

CAS Registry Number 57394-31-7 CAPLUS

Chemical or Trade Name Ethanone, 1-(8-fluoro-3-hydroxy-6,6-dimethyl-6H-dibenzo[b,d]pyran-4-yl)-(CA INDEX NAME)

CAS Registry Number 57394-48-6 CAPLUS

Chemical or Trade Name Ethanone, 1-(8-chloro-3-hydroxy-6,6-dimethyl-6H-dibenzo[b,d]pyran-4-yl)-(CA INDEX NAME)

CAS Registry Number 57394-24-8 CAPLUS

Chemical or Trade Name

6H-Dibenzo[b,d]pyran-6-one, 4-acety1-3-hydroxy-8-methoxy- (CA INDEX NAME)

CAS Registry Number 57394-34-0 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 4-acetyl-8-fluoro-3-hydroxy- (CA INDEX NAME)

CAS Registry Number 57394-51-1 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 4-acetyl-8-chloro-3-hydroxy- (CA INDEX NAME)

.L8 ANSWER 129 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1975:563996 CAPLUS Full-text Document Number 83:163996

Title Benzopyran derivatives

Author/Inventor
Lauria, Francesco; Vecchietti, Vittorio; Tommasini, Raffaele; Passerini, Norina

Patent Assignee/Corporate Source Erba, Carlo, S.p.A., Italy

Source

Ger. Offen., 42 pp. CODEN: GWXXBX

Document Type Patent

Language German

t II	ntormation				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	DE 2459076	A1	19750710	DE 1974-2459076	19741213
	ZA 7407550	A	19751231	ZA 1974-7550	19741126
	AU 7476128	A	19760610	AU 1974-76128	19741205
	NL 7416454	A	19750701	NL 1974-16454	19741217
	FI 7403678	A	19750628	FI 1974-3678	19741219
	SE 7416126	A	19750630	SE 1974-16126	19741220
	DK 7406801	A	19750825	DK 1974-6801	19741223
	DD 115661	A5	19751012	DD 1974-183412	19741224
	BE 823873	A1	19750416	BE 1974-151938	19741227
	NO 7404713	A	19750630	NO 1974-4713	19741227
	FR 2255895	A1	19750725	FR 1974-43124	19741227
	JP 50096574	A	19750731	JP 1975-3007	19741227

. Antidepressant dibenzopyrans I (R = NMe2, R1 = H, X = O, H2, Me2; R = NH2, NHMe, R1 = H, X = O; R = Cl, R1 = 8-NO2, 8-NH2, X = O; R = H, R1 = 7-NO2, 9-NO2, X = O) and the tetrahydro derivs. II (R2 = H, R3 = 2-NMe2, 3-NHMe2, 3-NHMe2, 3-NHMe, 3-NH2; R2 = OMe, R3 = NMe2) were prepared. Thus, 2-ethoxycarbonylcyclohexanone was condensed with 4-Me2NC6H4OH to give 70% II (R2 = H, R3 = 2-NMe2). Hit Structure

CAS Registry Number 56825-78-6 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3-chloro-8-nitro- (CA INDEX NAME)

CAS Registry Number 56825-81-1 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 8-amino-3-chloro- (CA INDEX NAME)

L8 ANSWER 130 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1975:547468 CAPLUS Full-text Document Number 83:147468

Title

2-Carboxy-4-oxo-4H,10H-(2)-benzopyrano-(4,3-g)-(1)- benzopyrans and their salts
Patent Assignee/Corporate Source
Boehringer, C. H., Sohn, Fed. Rep. Ger.

Austrian, 5 pp. CODEN: AUXXAK

Document Type Patent

Language German Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
AT 323161	В	19750625	AT 1973-7457	19730828

Benzopyranobenzopyran (I, R = OH) was obtained in 20% yield by treatment of II with (CO2Et)2 40 min at 75°. Subsequent acetylation gave 65% II (R = OAc). Nitration of I (R = H) gave 45% I (R = NO2) and sulfonation of I (R = H) gave 21% I (R = SO3H). I was useful as allergy inhibitors. Hit Structure

CAS Registry Number 52156-95-3 CAPLUS

Chemical or Trade Name Ethanone, 1-(3,8-dihydroxy-6,6-dimethyl-6H-dibenzo[b,d]pyran-2-yl)- (CA INDEX NAME)

_L8_ANSWER 131 OF 165_CAPLUS_COPYRIGHT 2011 ACS on STN Accession Number 1975-4358601_CAPLUS_<u>Full-text</u> Document Number

83:58601 Title

6H-dibenzo[b,d]pyrans. I. Synthesis

Author/Inventor
Devlin, John P.

Patent Assignee/Corporate Source Pharma Res. Canada Ltd., Pointe Claire, QC, Can.

Source

Canadian Journal of Chemistry (1975), 53(3), 343-9 CODEN: CJCHAG; ISSN: 0008-4042

Document Type Journal

Language English

Abstract

2',4'-Dihydroxy- and 2',6'-dihydroxybiphenyl-2-carboxylic acid lactones, e.g. I(x = 0), were prepared from o-BrC6H4CO2H and dihydroxybenzenes. Grignard addition to or direct BF3.Et2O-NaBH4 reduction of these lactones yields resp. 6,6-substituted, e.g. I(x = Me2), or the 6,6-unsubstituted, e.g. I(x = H2), 6H-dibenzo[b,d]pyrans. Hit Structure

CAS Registry Number 35233-17-1 CAPLUS

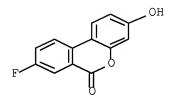
Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3-hydroxy-8-methoxy- (CA INDEX NAME)

CAS Registry Number 56263-97-9 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 8-chloro-3-hydroxy- (CA INDEX NAME)

CAS Registry Number 56263-99-1 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 8-fluoro-3-hydroxy- (CA INDEX NAME)



CAS Registry Number 55815-65-1 CAPLUS

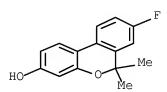
Chemical or Trade Name 6H-Dibenzo[b,d]pyran-3-ol, 8-methoxy-6,6-dimethyl- (CA INDEX NAME)

CAS Registry Number 55815-66-2 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-3-o1, 8-chloro-6,6-dimethyl- (CA INDEX NAME)

CAS Registry Number 55815-68-4 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-3-o1, 8-fluoro-6,6-dimethyl- (CA INDEX NAME)



THERE ARE 12 CAPLUS RECORDS THAT CITE THIS RECORD (12 CITINGS) OS.CITING REF COUNT: 12

L8 ANSWER 132 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1975:408898 CAPLUS Full-text Document Number 83:8898

Title

6H-dibenzo[b,d]pyrans. II. Boron trifluoride catalyzed acylation of hydroxy-6H-dibenzo[b,d]pyrans 6H-dibenzo[b,d]pyrans. II. Boron trifluoride catalyz.

Author/Inventor
Devlin, John P.
Patent Assignee/Corporate Source
Pharma Res. Canada Ltd., Pointe Claire, QC, Can.

Source

Canadian Journal of Chemistry (1975), 53(3), 350-4 CODEN: CJCHAG; ISSN: 0008-4042

Document Type Journal

Language English Abstract

The Friedel-Crafts acetylation of 3-hydroxy-6H-dibenzo[b,d]pyrans (I, R, R1, R2, R3 given: H, Me, OMe, H, H, Me, C, H, H; Me, C, H, H; Me, H, H, C; Me, F, H, H) with AcOH in the presence of BF3 is described. Representatives unsubstituted at C-1 acylate exclusively at C-2. A methyl or methoxyl substituent at C-1 directs acylation to the C-4 position. The identities of the individual isomers are established on the basis of NMR.

Hit Structure

CAS Registry Number

55815-65-1 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-3-ol, 8-methoxy-6,6-dimethyl- (CA INDEX NAME)

CAS Registry Number 55815-66-2 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-3-o1, 8-chloro-6,6-dimethyl- (CA INDEX NAME)

CAS Registry Number 55815-68-4 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-3-ol, 8-fluoro-6,6-dimethyl- (CA INDEX NAME)

$$\mathsf{HO} = \mathsf{Me}^\mathsf{F}$$

CAS Registry Number 52156-88-4 CAPLUS

Chemical or Trade Name Ethanone, 1-(3-hydroxy-8-methoxy-6,6-dimethyl-6H-dibenzo[b,d]pyran-2-yl)-(CA INDEX NAME)

CAS Registry Number 52156-89-5 CAPLUS

Chemical or Trade Name Ethanone, 1-(8-chloro-3-hydroxy-6,6-dimethyl-6H-dibenzo[b,d]pyran-2-y1)-(CA INDEX NAME)

CAS Registry Number 52156-93-1 CAPLUS

Chemical or Trade Name
Ethanone, 1-(8-fluoro-3-hydroxy-6,6-dimethyl-6H-dibenzo[b,d]pyran-2-y1)(CA INDEX NAME)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

, L8 ANSWER 133 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1975-34064 CAPLUS Full-text Document Number

82:4064

Title

Virucidal 2,7-bis(aminoalkoxy)-9-hydroxyphenanthrenes and analogous heterocyclic compounds

Author/Inventor

Meyer, Donald Ralph; Sill, Arthur D.; Tiernan, Paul L.

Patent Assignee/Corporate Source Richardson-Merrell Inc.

Source

Ger. Offen., 50 pp. CODEN: GWXXBX

Document Type Patent

Language German

ı	information							
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE			
	DE 2362577	A1	19740627	DE 1973-2362577	19731217			
	ZA 7308207	A	19750226	ZA 1973-8207	19731023			
	AU 7361883	A	19750501	AU 1973-61883	19731026			
	CA 1042439	A1	19781114	CA 1973-184541	19731029			
	GB 1420377	A	19760107	GB 1973-58266	19731217			
	FR 2211242	A1	19740719	FR 1973-45518	19731219			
	JP 49088852	A	19740824	JP 1973-141923	19731220			
	US 4059702	A	19761122	US 1976-740806	19761111			
	JP 55089262	A	19800705	JP 1978-156767	19781219			
	JP 58014432	В	19830318					

Trive ethers (I, n = 2 or 3; R = Me or Et; or NR2 = piperidino; R1 = Me or H; II, X = NH or O) or their salts were prepared by ring enlargement of the fluorenones (III). I had virucidal activity when tested in the infected mouse. Thus, III (n = 2, R = Et; II \) (N) was treated with ChNNeCO2Et in MeOH and Et2O in the presence of Na2CO3 to give I (n = 2, R = Me). III (n = 2, R = Me) was treated with ONNMeCO2Et in MeOH and Et2O in the presence of Na2CO3 to give I (n = 2, R = Me). Reaction of IV with NaN3 in F3CCO2H and H2SO4 gave, after treatment with HCI, II.2HCI (X = NH, R = Et). 2,7-bis(2-chloroethyl)fluoren-9-one was treated with 30% H2O2 in concentrated H2SO4 and then successively with Me2NH and HCI to give II.2HCI (X = O, R = Me).

Hit Structure

CAS Registry Number 53395-17-8 CAPLUS

Chemical or Trade Name 6H-Dibenze[b,d]pyran-6-one, 3,8-bis[2-(dimethylamino)ethoxy]-, hydrochloride (1:2) (CA INDEX NAME)



CAS Registry Number 53395-18-9 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-bis(2-chloroethoxy)- (CA INDEX NAME)

THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS) OS.CITING REF COUNT: 2

L8 ANSWER 134 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number 1974:535887 CAPLUS Full-text

Document Number

81:135887

Oxidation of $\Delta 1\text{-}$ and $\Delta 6\text{-}\text{tetra}\text{hydrocannabinol}$ with selenium dioxide

Inayama, Seiichi; Sawa, Aiko; Hosoya, Eikichi

Patent Assignee/Corporate Source Sch. Med., Keio Univ., Tokyo, Japan

Source

Chemical & Pharmaceutical Bulletin (1974), 22(7), 1519-25 CODEN: CPBTAL; ISSN: 0009-2363

Language English

. d-Tetrahydrocannabinol I (R = H, R1 = Me) was oxidized with SeO2 to yield I (R = H, R1 = HOCH2, II, III, IV, cannabinol, V (R = H, R1 = HOCH2, CHO; R = HO, R1 = Me). VI was transformed to I (R = H, R1 = HOCH2, CHO) in a similar manner. The oxidation of I (R = H, R1 = Me) favors the endocyclic allyl methylene rather than the exocyclic allyl Me while the reverse is the case with VI. Hit Structure

CAS Registry Number 53865-22-8 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-1,8-diol, 6,6,9-trimethyl-3-pentyl- (CA INDEX NAME)

THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS) OS.CITING REF COUNT: 8

L8 ANSWER 135 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number 1974:505322 CAPLUS <u>Full-text</u>

Document Number

Virucidal bis(aminopropyl) 5,6-dihydro-6-oxo-3,8-phenanthridinedicarboxylate and analogs

Author/Inventor

Meyer, Donald Ralph; Sill, Arthur D.
Patent Assignee/Corporate Source
Richardson-Merrell Inc.

Source

Ger. Offen., 46 pp. CODEN: GWXXBX

Document Type

Patent Language German

11	mormation					
	PAT	ENT NO.	KIND	DATE	APPLICATION NO.	DATE
	DE	2362748	A1	19740627	DE 1973-2362748	19731217
	US	3859312	A	19750107	US 1972-317146	19721221
	CA	1042443	A1	19781114	CA 1973-184536	19731029
	IL	43669	A	19780831	IL 1973-43669	19731121
	GB	1421075	A	19760114	GB 1973-58261	19731217
	FR	2211237	A1	19740719	FR 1973-45513	19731219
	JР	49088848	A	19740824	JP 1973-141916	19731220

Four esters (1, X = NH or O; R = Et or Bu; and II, R1 = Me or H) were prepared by ring enlargement of fluorenes. I had virucidal activity when tested in the infected mouse. Thus, the fluorene III (n = 3, R = Bu) was treated with NaN3 in H2SO4 and F3CC02H or with CH2N2 in Et2O to give, after treatment with HCI, I (X = NH, R = Bu) or II (R1 = Me), resp. 9-0xo-2,7-fluorenedicarboxylic acid was treated with H2O2 in H2SO4 to give 6-oxo-6H-dibenzo[b,d]pyran-3,8-dicarboxylic acid with ricetacled with CICH2)3NHz in Me2CPOH in the present of PhCH2N-NAS C- to give I (X = 0, R = Et). The preparation of 13 III (n = 2-5; R = C1-6 alkyl or allyl; or NR2 = morpholino, piperidino, or cyclohexylmethylamino) by reaction of 9-oxo-2,7-fluorenedicarboxyl dichloride with HO(CH2)nNR2 was also reported. Hit Structure

CAS Registry Number 53405-25-7 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-3,8-dicarboxylic acid, 6-oxo- (CA INDEX NAME)

CAS Registry Number 53405-26-8 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-3,8-dicarboxylic acid, 6-oxo-, 3,8-bis[3-(diethylamino)propyl] ester, hydrochloride (1:2) (CA INDEX NAME)

HC1

L8 ANSWER 136 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1974:146136 CAPLUS <u>Full-text</u> Document Number 80:146136

Title

Antiallergic 2-carboxy-4H,10H-[2]benzopyrano[4,3-g][1]benzopyran-4-ones

Antialergic 2-carboxy-4H,10H-[2]benzopyrano[4,3 Author/Inventor Devlin, John, Stewart, Patrick Brian; Freter, Kurt Patent Assignee/Corporate Source Boehringer, C. H., Sohn

Boehringer, C. I., Collin, Source Ger. Offen., 22 pp. CODEN: GWXXBX Document Type Patient

Language German Patent

German Information						
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
DE 2343291	A1	19740314	DE 1973-2343291	19730828		
DE 2343291	Сз	19790412				
AT 320645	В	19750225	AT 1972-7425	19720829		
RO 62920	A1	19780315	RO 1973-75862	19730821		
RO 63037	A1	19780515	RO 1973-78264	19730821		
CH 581139	A 5	19761029	СН 1976-7962	19730824		
CH 581657	A5	19761115	CH 1973-12213	19730824		
HU 166366	В	19750328	HU 1973-BO1459	19730827		
ZA 7305838	A	19750430	ZA 1973-5838	19730827		
SU 482042	A3	19750825	SU 1973-1962550	19730827		
SU 485596	A3	19750925	SU 1973-1962548	19730827		
CS 179427	В2	19771031	CS 1973-5972	19730827		
BE 804123	A1	19740228	BE 1973-135029	19730828		
NL 7311799	A	19740304	NL 1973-11799	19730828		
JP 49056999	A	19740603	JP 1973-96558	19730828		
DK 131569	В	19750804	DK 1973-4718	19730828		
US 3901925	A	19750826	US 1973-392182	19730828		
PL 85433	в1	19760430	PL 1973-164886	19730828		
GB 1439990	A	19760616	GB 1973-40417	19730828		
CA 1016951	A1	19770906	CA 1973-179828	19730828		
SE 396389	в	19770919	SE 1973-11690	19730828		
NO 138567	В	19780619	NO 1973-3383	19730828		
NO 138567	С	19780927				
FR 2197594	A1	19740329	FR 1973-31242	19730829		
DD 109870	A5	19741120	DD 1973-173155	19730829		
US 3998962	A	19761221	us 1975-587331	19750616		

Fourteen benzopyranobenzopyranones I (R = H or Me; R1 = H, Cl, OMe, or Br; R2 = H, OMe, Cl, F, OH, OAc, NO2, or SO3H; R3 = H, Me, or Bu) were prepared by cyclization of the dibenzopyran li with (CO2Et)2 or of the furnaric acid ether lii in the presence of concentrated H2SO4 optionally followed by e.g. acetylation or nitration. I were used as antillergic agents in rats.

Hit Structure

CAS Registry Number 52156-88-4 CAPLUS

Chemical or Trade Name Ethanone, 1-(3-hydroxy-8-methoxy-6,6-dimethyl-6H-dibenzo[b,d]pyran-2-yl)-(CA INDEX NAME)

CAS Registry Number 52156-89-5 CAPLUS

Chemical or Trade Name
Ethanone, 1-(8-chloro-3-hydroxy-6,6-dimethyl-6H-dibenzo[b,d]pyran-2-y1)(CA INDEX NAME)

CAS Registry Number 52156-91-9 CAPLUS

Chemical or Trade Name Ethanone, 1-(3-hydroxy-8,9-dimethoxy-6,6-dimethyl-6H-dibenzo[b,d]pyran-2-yl)- (CA INDEX NAME)

CAS Registry Number 52156-92-0 CAPLUS

Chemical or Trade Name Ethanone, 1-(9-bromo-3-hydroxy-8-methoxy-6,6-dimethyl-6H-dibenzo[b,d]pyran-2-y1)- (CA INDEX NAME)

CAS Registry Number 52156-93-1 CAPLUS

Chemical or Trade Name Ethanone, 1-(8-fluoro-3-hydroxy-6,6-dimethyl-6H-dibenzo[b,d]pyran-2-y1)-(CA INDEX NAME)

CAS Registry Number 52156-95-3 CAPLUS

Chemical or Trade Name
Ethanone, 1-(3,8-dihydroxy-6,6-dimethyl-6H-dibenzo[b,d]pyran-2-yl)- (CAINDEX NAME)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

, L8 ANSWER 137 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1974:133251 CAPLUS Full-text

Document Number

80:133251 Title

Dibenzo[b,d]pyran compounds

Author/Inventor Loev, Bernard

Patent Assignee/Corporate Source Smithkline Corp.

Source

U.S., 4 pp. CODEN: USXXAM Document Type Patent

Language English

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3799946	A	19740326	US 1972-234380	19720313

The dibenzopyrans I (R = Me(CH2)5CHMeCHMe, Me(CH2)3CHMeCHMe, Me(CH2)4CHMeCHMe, Me(CH2)5CHEt; r1 = Me, Et; R2 = H, Me; R3 = H, Ac, Me) were prepared Thus, 3-{1,2-dimethylheptyl}-7,8,9,10-tetrahydro-1-thydroxy-6,6,9-trimethyl-6H-dibenzo|b,d|pyran was treated with 2,3-dichloro-5,6-dicyanoquinone to give I (R = Me(CH2)4CHMeCHMe, R1 = R2 = Me, R3 = H). At 1-100 mg/kg I decreased central nervous system activity in rats. At 0.4-50 mg/kg I inhibited gastric acid secretion in rats.

Hit Structure

CAS Registry Number 52291-11-9 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-1-ol, 3-(1,2-dimethylheptyl)-6,6,8-trimethyl- (CA INDEX NAME)

OS.CITING REF COUNT: THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

, L8 ANSWER 138 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1973:526235 CAPLUS Full-text Document Number

79:126235

Title

New antioxidants and their properties

Author/Inventor Untze, W.

Patent Assignee/Corporate Source
Landesanst, Lebensm.-, Arzneimgerichtl. Chem., Berlin, Fed. Rep. Ger. Source

Fette, Seifen, Anstrichmittel (1973), 75(6), 393-4 CODEN: FSASAX; ISSN: 0015-038X

Document Type Journal

Language German

nt Reaction of Et 2-oxocyclohexanecarboxylate, Et 2-oxocyclopentanecarboxylate, or di-Et 1,4-dioxo-2,5-cyclohexanedi-carboxylate with polyhydric phenols gave the xanthone, chromone, and coumarin derivs. I-VI, which were used as antioxidants for fatty acids and their Me esters. The fat-solubility and a certain water-solubility of I-VI were achieved by introduction of a CO2H group. The o-dihydroxy derivs, showed inhibitor action for long periods at low temps., whereas the p-dihydroxy derivs, had a maximum inhibition towards atmospheric O only at high temps.

Hit Structure

CAS Registry Number 50624-15-2 CAPLUS

Chemical or Trade Name
6H-Dibenzo[b,d]pyran-9-carboxylic acid, 3,4,8-trihydroxy-6-oxo- (CA INDEX NAME)

Accession Number 1973:17594 CAPLUS <u>Fuli-text</u>

Document Number

78:17594

Title Development in the chemistry and dyeing uses of methine dyes

Author/Inventor

Sureau, R.

Patent Assignee/Corporate Source Lab. Rech., Prod. Chim. Ugine Kuhlmann, Saint-Denis, Fr.

Source

Teintex (1972), 37(8-9), 459-64 CODEN: TEINAC; ISSN: 0040-2192

Document Type Journal

Language French

Abstract

that methine dye (I, R = R1 = H) [24000-87-1] giving lightfast (6-7) bright orange dyeings on Crylor or Courtelle fiber was prepared by reaction of coumarin-2-thione with 1,3,3-trimethyl-2-methyleneindoline (II) in HOAc containing CICH2CO2Et, and the effects of structural changes on its \(\)\text{\text{max}} and its lightfastness on acrylic fiber were determined Substitution in the benzopyran and (or) indole nucleus caused a bathochromic shift. The lightfastness of I with electron-donating groups (OMe, Me) was generally good, with amino groups poor, and with electron-withdrawing groups (NO2, CI, Ph) decreased as the electronegativity of the group increased. A bathochromic effect was also observed when the benzopyran nucleus contained a tused benzence ring, and lightfastness edecreased in the order: \(3,4 - > 5,6 > 7,8 - benzo. The lightfastness of I also decreased when the bridging groups was changed to trimethine. Isomers of I prepared from isocoumarin-1-thione or chromone-4-thione had poor to medium lightfastness. Condensation of 2H-naphtho[1,8-bc]turan-2-thione (naphtholactonethione, III) with II and its derivs. gave naphthoturan analogs exhibiting hypsochromism with respect to I, good lightastness on Crylor, and medium lightfastness on Courtelle. Replacement of the indole nucleus of I by benzothiazole caused a hypsochromic shift and only moderate lightfastness.

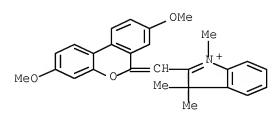
Hit Structure

CAS Registry Number 32004-02-7 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-thione, 3,8-dimethoxy- (CA INDEX NAME)

CAS Registry Number 40383-78-6 CAPLUS

Chemical or Trade Name 3H-Indolium, 2-[(3,8-dimethoxy-6H-dibenzo[b,d]pyran-6-ylidene)methyl]-1,3,3-trimethyl-, chloride (1:1) (CA INDEX NAME)



C1-

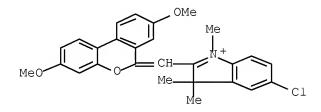
CAS Registry Number 40383-79-7 CAPLUS

Chemical or Trade Name 3H-Indolium, 2-[(3,8-dimethoxy-6H-dibenzo[b,d]pyran-6-ylidene)methyl]-5-methoxy-1,3,3-trimethyl-, chloride (1:1) (CA INDEX NAME)

C1-

CAS Registry Number 40383-81-1 CAPLUS

Chemical or Trade Name
3H-Indolium, 5-chloro-2-[(3,8-dimethoxy-6H-dibenzo[b,d]pyran-6ylidene)methyl]-1,3,3-trimethyl-, chloride (1:1) (CA INDEX NAME)



C1-

L8 ANSWER 140 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number 1972:73716 CAPLUS <u>Full-text</u>

Document Number

Title

Fluorescent whitening agents for synthetic fibers. 18. Annellation effects in the fluorescence of some coumarins

Author/Infertior
Umemoto, Hirotoshi; Morii, Akiji; Kitao, Teijiro; Konishi, Kenzo
Patent Assignee/Corporate Source
Dep. Appl. Chem., Univ. Osaka Prefect., Sakai, Japan

Source
Kogyo Kagaku Zasshi (1971), 74(10), 2123-6 CODEN: KGKZA7; ISSN: 0368-5462
Document Type
Journal

Language Japanese

Abstract

The annellation effects on coumarins were studied by measuring the fluorescence intensity of alc. benzocoumarin solns, and characteristic fading curves on polyamide films. The fluorescence intensity was in the order, coumarin (I) [91-64-5] < 6,7-benzocoumarin (II) [91-64-5] < 6,7-benzocoumarin (II) [91-64-5] < 6,7-benzocoumarin (II) [91-64-5] < 8,7-benzocoumarin (II) [91-64-5] < 1,8-benzocoumarin (III) [91-64-5] < 1,8-benzocoumarin

CAS Registry Number 35233-17-1 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3-hydroxy-8-methoxy- (CA INDEX NAME)

1

OS.CITING REF COUNT:

THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

, L8 ANSWER 141 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1971:113246 CAPLUS Full-text

Document Number 74:113246

Title

Methine dyes, especially for coloring acrylic fibers Author/Inventor

Author/Inventor
Sureau, Robert; Kremer, Gilbert; Dupre, Victor
Patent Assignee/Corporate Source
Ugine Kuhlmann

Source

Fr. Addn., 7 pp. Addn. to Fr. 1,540,458 CODEN: FAXXA3

Document Type Patent

Language French

PATENT NO. KIND DATE APPLICATION NO. DATE FR 95364 19700911 FR 19680711

... 2-Ethoxybenzopyrylium fluoroborate suspended in dioxane was treated at 80° with 1,3,3-trimethyl-2-methyleneindoline to give red-orange I. A mixture of 6,8-dimethylcoumarin and P2S5 in anhydrous dioxane was heated for 2 hr at 75-80° and for 5 hr at 100°, decanted hot, and poured into ice-H2O to give II (R = H, R1 = 6,8-Me2). Similarly 9 other II were prepared Hit Structure

CAS Registry Number 32004-02-7 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-thione, 3,8-dimethoxy- (CA INDEX NAME)

L8 ANSWER 142 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1968:113863 CAPLUS Full-text

Document Number 68:113863

Title

Electron impact-induced alkyl and hydrogen migrations in diphenic acid derivatives Author/Inventor

Wuensche, Christian; Sachs, A.; Einwiller, Andreas; Mayer, Walter

Patent Assignee/Corporate Source
Univ. Heidelberg, Heidelberg, Fed. Rep. Ger.

Source

Tetrahedron (1968), 24(8), 3407-16 CODEN: TETRAB; ISSN: 0040-4020

Document Type Journal

Language German

The major fragmentation of 6,6-dialkoxy-2,2-diphenic acid includes a one-step concerted alkyl and H migration. The C-1-C-1' bond is cleaved and an alkyl group migrates from one benzene ring to the other while a H is transferred in the opposite direction. The type of reaction requires restricted rotation of the benzene rings about the bond joining them, and the lack of loosely bound aromatic substituents the loss of which would allow a planar biphenyl system. 23 references.

Hit Structure

CAS Registry Number 19491-15-7 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,4,8,9,10-pentamethoxy- (CA INDEX NAME)

CAS Registry Number 19491-16-8 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-1-carboxylic acid, 3,4,8,9,10-pentamethoxy-6-oxo-, methyl ester (CA INDEX NAME)

OS.CITING REF COUNT: THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L8 ANSWER 143 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number 1968:104896 CAPLUS <u>Fuli-text</u>

Document Number 68:104896

Title

Persulfate oxidation of carboxylic acids. III. Oxidation of cis-cinnamic and biphenyl-2-carboxylic acids

Author/Inventor
Brown, Patricia Margaret; Russell, James; Thomson, Ronald H.; Wylie, A. G.

Patent Assignee/Corporate Source Univ. Aberdeen, Aberdeen, UK

Journal of the Chemical Society [Section] C: Organic (1968), (7), 842-8 CODEN: JSOOAX; ISSN: 0022-4952

Document Type Journal

Language English

34-Benzocoumarins were obtained by oxidative cyclization of biphenyl-2-carboxylic acids. The parent benzocoumarin was also formed by oxidation of 2'-substituted acids with elimination of the substituent (OMe, NO2, and CO2H and in low yield Me and CI) but 2'-benzoylbiphenyl-2-carboxylic acid gave 5-benzoyl-3,4-benzocoumarin and 2'-cyanobiphenyl-2-carboxylic acid yielded fluorenone and phenanthridine-1,10-carbolactone. Similar oxidnotics-cinnamic acids gave poor yields of coumarins, markedly increased by the presence of an o-methoxy group. The mechanisms of these reactions are discussed. 47 references.

Hit Structure

CAS Registry Number 18102-99-3 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-dibromo- (CA INDEX NAME)

OS.CITING REF COUNT: THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

L8 ANSWER 144 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number 1967:500362 CAPLUS <u>Fuil-text</u>

Document Number 67:100362

Title

Luteic acid and islandic acid, composition, and structure Author/Inventor Ebert, Edith; Zenk, Meinhart H.

Patent Assignee/Corporate Source Univ. Munich, Munich, Fed. Rep. Ger.

Phytochemistry (Elsevier) (1967), 6(2), 309-12 CODEN: PYTCAS; ISSN: 0031-9422

Document Type Journal

Language English

The acidic polysaccharides of Penicillium luteum and P. islandicum were isolated from the culture medium by precipitation with protamine. The molar ratio of glucose to malonic acid of luteic acid from different P. luteum strains varies greatly but is strain specific. Islandic acid from P. islandicum consists of glucose and malonic acid in a molar ratio of 1:1, the glucose units being linked through the β-D-1,6-position. Malonic acid is linked in both polysaccharides to the alc. hydroxyl of C-3 of glucose as a hemiester.

Hit Structure

CAS Registry Number 476-67-5 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-1-carboxylic acid, 3,4,8,9,10-pentahydroxy-6-oxo-(CA INDEX NAME)

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, L8 ANSWER 145 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 19165-8418 CAPLUS Full-text Document Number
          62:4818
 Title
          Isolation of two benzocoumarins from clover stone, a type of renal calculus found in sheep
Author/Inventor
Pope, G. S.
Patent Assignee/Corporate Source
Natl. Inst. Res. Dairying, Reading, UK
Source
          Biochemical Journal (1964), 93(3), 474-7 CODEN: BIJOAK; ISSN: 0264-6021
Language
English
```

English
Abstract
Two known benzocoumarins were isolated from renal calculi, known as clover stone, which are found in sheep in some areas of Western and South Australia. One of these compds, is identical with the natural product castoreum pigment I from the scent gland of the beaver; the other has not previously been found in nature. Both, although not themselves known in the plant kingdom, are closely related to ellagic acid. Although each of the isolated benzocoumarins is a monocarbonyl compound each exhibits a double band in the carbonyl-stretching region of the ir. absorption spectrum.

CAS Registry Number 1143-70-0 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-dihydroxy- (CA INDEX NAME)

CAS Registry Number 1163-12-8 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-bis(acetyloxy)- (CA INDEX NAME)

CAS Registry Number 1680-85-9 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-dimethoxy- (CA INDEX NAME)

OMe

OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

L8 ANSWER 146 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1964:447625 CAPLUS Full-text

Document Number 61:47625

Title

Intramolecular nucleophilic displacement of nitro group in 2'-nitrobiphenyl-2(or 6)-carboxylic acids. Lactonization of 2,3,4,4'-tetramethoxy-2'-nitrobiphenyl-6-carboxylic acid

Author/Inventor Mathur, K. B. L.; Sarbhai, K. P.

Patent Assignee/Corporate Source Univ. Delhi, India

Tetrahedron Letters (1964), (25-26), 1743-5 CODEN: TELEAY; ISSN: 0040-4039

Document Type Journal

Language Unavailable

The title acid (I) (0.2 g.) in 5 ml. quinoline heated 1 hr. with or without 0.08 g. CuO yielded 50% lactone (II), m. 161-2°. II methylated with Me2SO4 in cold aqueous alkali followed by refluxing 1 hr. gave 2,3,4,2',4-1 pentamethoxybiphenyl-6-carboxylic acid, m. 176-8°. I, m. 199-200'(alc.), was synthesized by coupling 2,4-O2N(MeO)C6H3N2CI with 3,4,5-(MeO)3C6H2CO2EI by the Meerwein diazo reaction according to Dickerman and Weiss (CA 52,5346g).

Hit Structure

CAS Registry Number 95281-07-5 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8,9,10-tetramethoxy- (CA INDEX NAME)

THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS) OS.CITING REF COUNT: 1

L8 ANSWER 147 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1964:419363 CAPLUS <u>Full-text</u>

Document Number 61:19363

Production of mucilage by mold. IV. Determination of molecular weight

Author/Inventor

Nakamura, Norio; Tomita, Shigeru; Tanabe, Osamu

Kenkyu Hokoku - Kogyo Gijutsuin Hakko Kenkyusho (1962), No. 22, 69-78 CODEN: KGHKAF; ISSN: 0015-0061

Document Type Journal

Language Unavailable

ct. CA 59, 13124e. A luteic acid produced by Penicillium aculeatum was saponified with 0.1N NaOH at room temperature to give a luteose. Sedimentation constant of the luteose was 17.24 + 10-13 sec., intrinsic viscosity 2.6, and partial sp. volume 0.6572, resp. From these data, the mol. weight of the luteose was calculated as 1.6 + 106. The mol. weight of the luteic acid was estimated to be 2.0 + 106 from that of the luteose. The mol. weight of the luteic acid was much greater than that of luteic acid reported by Raistrick and Rintoul (CA 26, 2484).

Hit Structure

CAS Registry Number 476-67-5 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-1-carboxylic acid, 3,4,8,9,10-pentahydroxy-6-oxo-(CA INDEX NAME)

L8 ANSWER 148 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number

1964:53901 CAPLUS Full-text

Document Number

60:53901 Title

Two constituents of clover stone, a type of urinary calculus found in sheep

Author/Inventor Nittle, M. C.; Pope, G. S.

Patent Assignee/Corporate Source Natl. Inst. Res. Dairying, Shinfield, UK

Biochemical Journal (1963), 89(1), 67P CODEN: BIJOAK; ISSN: 0264-6021

Document Type Journal

Language Unavailable

Abstract

. Urolithin A was obtained as pale, yellow, microscopic needles, m. 330-3° (decompose), C13H8O4. Urolithin B was obtained as white crystals, m. 233-4°, C13H8O3. Hit Structure

CAS Registry Number 1143-70-0 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-dihydroxy- (CA INDEX NAME)

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L8 ANSWER 149 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN
Accession Number
1963:448216 CAPLUS <u>Fuli-text</u>
Document Number
        59:48216
Title
        Experiments related to the biosynthesis of novobiocin and other coumarins
Author/Inventor
        Bunton, C. A.; Kenner, G. W.; Robinson, M. J. T.; Webster, B. R.
Patent Assignee/Corporate Source
Univ. Liverpool, UK
Source
        Tetrahedron (1963), 19, 1001-10 CODEN: TETRAB: ISSN: 0040-4020
Language
        Unavailable
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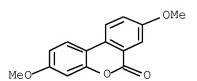
Unavailable of CL AS 5, 1593d. A fermentation broth of Streptomyces niveus was treated with L-tyrosine-C14 (I), (1.08 mg., 50 μc. generally labeled), and the isolated novobiocin (III) purified by countercurrent distribution between borax buffer (pH 8,6) and ethyl acetate (K approx. 1.0), gave pure III, specific activity 0.92 μc/millimole, showing about 10% incorporation. 1 (1.08 mg.) diluted with inactive L-tyrosine (III to 211 mg. material, activity 1.04 μc. μc/millimole, showing about 10% incorporation. II (1.08 mg.) diluted with inactive L-tyrosine (III to 211 mg. material, activity 4.06 μc. μc./millimole) (activity 0.09 μc./millimole) (activity 0.09 μc./millimole) (activity 0.09 μc./millimole) (activity 0.09 μc./millimole) (activity 0.05 μc./millimole) (activity 0.06 μc.

CAS Registry Number 1143-70-0 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-dihydroxy- (CA INDEX NAME)

CAS Registry Number 1680-85-9 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-dimethoxy- (CA INDEX NAME)



THERE ARE 20 CAPLUS RECORDS THAT CITE THIS RECORD (20 CITINGS) OS.CITING REF COUNT: 20

L8 ANSWER 150 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN 1961:8062 CAPLUS Full-text

55:8062 Title

The biosynthesis of certain coumarins, particularly of novobiocin

Chambers, K.; Kenner, G. W.; Temple Robinson, M. J.; Webster, B. R.

Patent Assignee/Corporate Source Univ. Liverpool, UK

Proceedings of the Chemical Society, London (1960) 291-2 CODEN: PCSLAW; ISSN: 0369-8718

Document Type Journal

Language Unavailable

Labeled novobiocin (I), produced from L-tyrosine-C14 (II) by fermentation, was degraded to various compds. (Hinman, et al., CA 51, 17903f; Stammer, et al., CA 52, 11031e) and the radioactivity of the degradation products determined. It was shown that the entire carbon skeleton of II was incorporated into the aminocoumarin nucleus of I and that II provided 7 of the C atoms for the aromatic acid moiety but none for the sugar. In the biosynthesis of coumarin from phenylalamine (Weygand and Wendt, CA 54, 6889h), a mechanism was suggested involving an intramol, attack of a carboxyl radical or potential carboxyl cation on an aromatic ring. By this mechanism, the yellow pigments from castoreum (Lederer, CA 44, 729f) could arise from 4,4-dihydroxylphenic acid [II]. Ill could result from oxidative coupling of m-hydroxybenzoic acid. The di-Me ether of III was oxidized with 87% H2O2 in AcOH to 4,4'-dimethoxy-2'-hydroxy-2-biphenylcarboxylic acid \(\delta\)-table ether of one of the pigments.

Hit Structure

CAS Registry Number 1680-85-9 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-dimethoxy- (CA INDEX NAME)

L8 ANSWER 151 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number 1959:1892 CAPLUS <u>Full-text</u>

Document Number

53:1892

Nucleophilic substitution of the halogen in o-bromobenzoic acids

Author/In

Mayer, Walter; Fikentscher, Rolf

Patent Assignee/Corporate Source

Univ. Heidelberg, Germany

Chemische Berichte (1958), 91, 1536-41 CODEN: CHBEAM; ISSN: 0009-2940

Document Type Journal

The Br of 2,3,4,5-Br(MeO)3C6HCO2H (I) can be replaced relatively easily in the presence of Cu powder, cuprous, or cupric ions by various nucleophilic substituents. A mechanism postulating the formation of an intermediate Cu chelate is proposed and discussed. 1 (13 g.) in 60 cc. 3N NaOH heated 7 hrs. with stirring under H with 0.2 g. CuO, acidified, and filtered gave 7 g. 2-OH analog of 1. 1 (3g.), 0.2 g. Cu powder, 2 g. pyrogallol, and 30 cc. 2N NaOH heated 2 hrs. at 100° under H, filtered, and acidified gave 1.5 g. II. 1 (2 g.) and 4.3 g. CuD powder in 40 cc. pyridine heated, evaporated, and acidified gave 1.5 g. II. 1 (2 g.) and 4.5 g. CuO disosNed with 20% aqueous NzCN, treated with 0.5 g. Cu powder, heated 9 hrs. with stirring at 100° under H, filtered, cooled, acidified with 6N HCI, extracted with Et2O, and the extract worked up gave 1.4 g. g. 3,4,5-NC(MeO)3C6HCO2H (III), needles, m. 149-51° (H2O). III heated 1 hr. with 2N HCI yielded 3.4,5,1,2-(MeO)3C6H(CO2H), m. 175°. 1 (3 g.), 0.2 g. Cu powder, 5.5 g. NaCN, and 30 cc. 0.33N NaOH treated similarly gave only unchanged 1. 1 (5 g.) and 0.2 g. Cu powder refluxed 8 hrs. with 6 g. Na in 100 cc. absolute MeO(4). Hiered hot, cooled, and the resulting Na satir acidified with 4N HCI yielded 3.2, g. 2, 43,5-PN(MeO)4C6HCO2H), m. 175°. 1 (3 g.), 0.2 g. Cu powder, 5.5 g. NaCN, and 30 cc. 0.33N NaOH treated similarly gave only unchanged 1. 1 (5 g.) and 0.2 g. Cu powder, and 30 g. PhOH heated 6 hrs. at 100° with stirring, concentrated in vacuo, acidified with dilute HCI, steam distilled, the distillation residue cooled, and the residue tervity. If the properties of the properties o

Hit Structure

CAS Registry Number 95281-07-5 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8,9,10-tetramethoxy- (CA INDEX NAME)

CAS Registry Number 107100-41-4 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3-hydroxy-8,9,10-trimethoxy- (CA INDEX NAME)

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L8 ANSWER 152 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1958:45735 CAPLUS Full-text
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Document Number 52:45735

Title

Precipitation of neutral polysaccharides by cationic detergents

Author/Inventor
Palmstierna, Hans; Scott, J. E.; Gardell, S.

Patent Assignee/Corporate Source Karolinska Inst., Stockholm

Source

Acta Chemica Scandinavica (1957), 11, 1792-3 CODEN: ACHSE7; ISSN: 0904-213X

Document Type Journal

Language Unavailable

at A neutral polysaccharide coupled to borate is completely precipitated when cetylpyridinium chloride (I) is added (C.A. 51, 10099e). Glycogen (II) from Escherichia coll B, alone or in combination with luteic acid (III) is separated by precipitating the III directly with I and the II by making the solution 0.01M with regard to borate, adjusting to pH 9.2 with KOH and adding I to complete precipitation. The II is dissociated from the borate-I complex by lowering the pH to neutrality and dialatyzing against tap water. The III is separated from I by dissolving in a solvent consisting of 20 ml. MeOH, 30 ml. saturated NaCl, and 50 ml. H2O, treating with Lloyd's reagent, and following the disappearance of I spectrophotometrically.

Hit Structure

CAS Registry Number 476-67-5 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-1-carboxylic acid, 3,4,8,9,10-pentahydroxy-6-oxo-(CA INDEX NAME)

L8 ANSWER 153 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1957:66529 CAPLUS <u>Fuil-text</u> 51:66529 Natural tannins. XXIV. Synthesis of octamethylvaloneaic acid Author/Inventor Schmidt, Otto Th.: Komarek, Ernst: Rentel, Heinz Patent Assignee/Corporate Source Univ. Heidelberg, Germany Source Annalen der Chemie, Justus Liebias (1957), 602, 50-60 CODEN; 9X224Y Language

Unavailable

Unavailable

Commission of the Commission of the

CAS Registry Number 116031-48-2 CAPLUS

Chemical or Trade Name
6H-Dibenzo[b,d]pyran-1-carboxylic acid,
4,9,10-trimethoxy-6-oxo-3,8-bis(phenylmethoxy)-, methyl ester (CA INDEX

L8 ANSWER 154 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1957:1797 CAPLUS <u>Full-text</u> Title

The stability of coumarinic acids. Chelation of the hydroxyl group Crawford, Malcolm; Rasburn, J. W.

Patent Assignee/Corporate Source

Coll. Technol., Belfast, Ire

Journal of the Chemical Society (1956) 2155-60 CODEN: JCSOA9; ISSN: 0368-1769

Document Type

Language Unavailable

to The examination of a number of nitrocoumarins has established that free coumarinic acids can be isolated from 8-nitrocoumarins, but not from other nitrocoumarins. This stability is attributed to chelation of the nitro group with the neighboring OH group. 7-Hydroxy-6,8-dinitrocoumarin (0.5 g.) in 3 ml. 10% NaOH and 10 ml. H2O was boiled 5 min., cooled in ice, filtered, and added to an ice-cooled mixture of 8 ml. 2N HCl and 10 ml. of H2O. The precipitate was filtered of fl. washed with ice H2O and crystallized from 30% aqueous aci. to yield 2.4-dihydroxy-3.5-dinitrocalicinnamic acid, m. 160-1/5, gs. yellow needles. A mixture of 9 g. 52, 23-MeHD()(20X)G6H2CHO, 170, 5 g. NaOAc, and 20 ml. Ac2O was refuxed 3.5 hrs., and the resulting brown solid extracted with 200 ml. of hot 50% HOAc, treated with C, and cooled to give 6.85 g. 6-methyl-8-nitrocoumarin (i), m. 174 (from HOAc). The filtrate after removal of the crude I above was concentrated to 50 ml., diluted with 400 ml. H2O, the precipitate extracted with cold 5% Na2CO3, the filtrate boiled 15 min., cooled and acidified. The precipitate was extracted with NaHCO3 solution, repptd., and recrystd. from 50% alc. to yield 0.75 g. 5-methyl-3-nitrocoumaric acid, m. 234-6° (decomposition), yellow needles. I (0.5 g.) was dissolved in hot aqueous NaOH, cooled, filtered, and the

filtrate chilled to 0° and added to chilled HCI to give a precipitate, which was washed with ice H2O and recrystd, from aqueous alc. to yield 5-methyl-3-nitrocoumarinic acid, m. 166-7° (sealed tube) (decomposition to a solid, m. 173-4°), syellow needles. p-MeSCC6H40H (100 g), 100 g; (CH2)6N4, 600 g; glycarol, and 140 g, H38O3 were treated in a Dulf recriation to give 3'g, yellow oil, which yielded 21.4 g. 3-2-MeSC(H010C6H3CH0 (II), b.1.0 a80-6° (phanylinydrazore, m. 140-4). The precious of the precious of

Hit Structure

CAS Registry Number 96463-25-1 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3-hydroxy-2,4,8-trinitro- (CA INDEX NAME)

THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS) OS.CITING REF COUNT: 2

L8 ANSWER 155 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1956:88989 CAPLUS <u>Full-text</u>

50:88989

Title

Polysaccharides from Penicillium luteum

Lloyd, P. F.; Pon, G.; Stacey, M.

Patent Assignee/Corporate Source

Univ. Birmingham, UK

Chemistry & Industry (London, United Kingdom) (1956) 172-3 CODEN: CHINAG: ISSN: 0009-3068

Document Type Journal

Language Unavailable

Abstract

Luteic acid, isolated from the metabolic products of Penicillium luteum grown on glucose (I), is a high polymer of I and malonic acid (II) in the ratio 2:1. Removal of II by either acidic or basic hydrolysis gave luteose, [a]D -33 c, a neutral polysaccharide consisting of [6-1 units. P. Luteum acted on I to give a polysaccharide, yellow powder, slightly soluble in H2O, which on acid hydrolysis (0.1N H2SO4) gave a mixture of I, mannose, galactose, fructose (trace), and II as shown by chromatography and ionophoresis of the hydrolysis product. Following an elaborate series of sepns, the following sugars were identified: 68% 2,3,4-tri-, 16% 2,3-di-, and 16% 2,4-di-methylglucopyranose. No tetramethylglucopyranose was defected.

Hit Structure

CAS Registry Number 476-67-5 CAPLUS

Chemical or Trade Name

6H-Dibenzo (b,d]pyran-1-carboxylic acid, 3,4,8,9,10-pentahydroxy-6-oxo-(CA INDEX NAME)

OS.CITING REF COUNT:

THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L8 ANSWER 156 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN

on Number 1953:6414 CAPLUS <u>Full-text</u>

47:6414

Title

Structure of phenyldihydrothebaine

nventor Bentley, K. W.; Robinson, Robert Patent Assignee/Corporate Source

Univ. Oxford, UK

Journal of the Chemical Society (1952) 947-57 CODEN: JCSOA9; ISSN: 0368-1769

Document Type Journal

Unavailable Abstract

Unavailable

The structure of phenyldity/drothebaine (I), deduced from existing data on their, grounds (R., C. A. 42, 2738e), has been continued by existation of the base to B2H, B2OH, and 4-MeOC6H3(CO2H)2 and by exhaustive methylation of its Me ether to a N-free compound that yields 5.6-fMeO)2C6H3C6H4OMe-3 and the corresponding diadehyde on existation with KMnO4 and the same alcheyde on exemptives. I HClO4 (15 g.) in 100 mt. 2 N NaOH, tested (2 h.) with 73 g. KMnO4 in 1. HClO, heated 2 h. on the steam bath (82H formed during the existation), the filtrate and washings concentrated and addition, give a precipitate (III) and a stitute (III) is a structure of the concentrated with 10 kmnO4 and the same alcheyde on exemption of the concentrated and addition, give a precipitate (III) and a stitute (III) is a structure of the concentrated and addition, the filtrate and washings concentrated and addition, give a precipitate (III) and a stitute (III) is a structure of the concentrate of the con

Hit Structure

CAS Registry Number 1680-85-9 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-dimethoxy- (CA INDEX NAME)

OS.CITING REF COUNT: THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD , L8 ANSWER 157 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1914-927900 CAPLUS Full-text Document Number

43:27300

Title

Synthesis of 4,4'-dihydroxydibenzo- α -pyrone, pigment of the scent glands of the beaver (Castor fiber)

Author/Inventor

Lederer, E.; Polonsky, J.

Bulletin de la Societe Chimique de France (1948) 831-4 CODEN: BSCFAS; ISSN: 0037-8968

Document Type Journal

Language Unavailable

ct C. A. 40, 3809.3. 3-Hydroxy-6-bromo-benzoic acid (I) (2.7 g.), m. 158-60° (from C6H6-E12O), is prepared from 5 g. of the 3-MeO compound (II) by treatment with 25 cc. concentrated HI, 5 cc. AcOH, and traces of PhOH and red P. 1 (0.5 g.) and 0.5 g. resorcinol in 5 cc. N NaOH treated at the b.p. with 0.2 cc. 10% aqueous CuSO4 yields 75 mg. (15%) 4.4°-dihydroxydibenzo-c-pyrone (III), yellowish crystals, decomposing about 350° (from dilute E1OH). Similar reactions with 1 or II and phloroglucinol, orcinol, and dimedone yield the following compds: .4.4°,6-tinhydroxydibenzo-c-pyrone (IV) (22% yield), does not m. up to 350° (friscetate, colorless, m. 206-9°; tin-Me ether, yellow, m. 187-90°; the 4-MeO analog of IV (70% yield), m. 312-4° (from aqueous E1OH); 4-methyd-6-f-methydibenzo-c-pyrone (28% yield), m. 266-8° (Ne ether, m. 184-6°); 4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell-4-dright-yell

Hit Structure

CAS Registry Number 1143-70-0 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-dihydroxy- (CA INDEX NAME)

CAS Registry Number 1680-85-9 CAPLUS

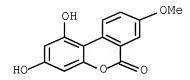
Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-dimethoxy- (CA INDEX NAME)

CAS Registry Number 35233-17-1 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3-hydroxy-8-methoxy- (CA INDEX NAME)

CAS Registry Number 685829-30-5 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 1,3-dihydroxy-8-methoxy- (CA INDEX NAME)



CAS Registry Number 854236-40-1 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 1,3,8-trihydroxy- (CA INDEX NAME)

CAS Registry Number 854241-33-1 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 1,3,8-tris(acetyloxy)- (CA INDEX NAME)

CAS Registry Number 860702-93-8 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 3,8-dimethoxy-10-methyl- (CA INDEX NAME)

CAS Registry Number 860702-94-9 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 1,3,8-trimethoxy- (CA INDEX NAME)

OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

Accession Number 1943:43307 CAPLUS <u>Fuli-text</u>

Document Number

37:43307 Title

Composition of herba alchemillae vulgaris

Author/Inve

Muhlemann, H.

Source

Pharmaceutica Acta Helvetiae (1938), 13, 277-99 CODEN: PAHEAA; ISSN: 0031-6865

Document Type Journal

Language Unavailable

and f. Kroeber, C. A. 21, 2166. The drug, stabilized at its collection with hot alc. vapor, gave H2O 7.35%; total ash 9.06; HCI-insol. ash 1.30; aqueous total extract 25.98; alc. total extract 4.15; tannins 6.40-8.40%; saponins none; α-glucoside or glucotannide by Bourquelot biol. test, probably pos.; β-glucoside by emulsin neg. Steam distillation yielded traces of salicylic acid (FeCl3). Successive treatment with organic solvents yielded; petrol. either, dotniacontane, C32H66, m. 68-8.5°, and phytosterol, m. 131-2°, also a mixture of palmitic and stearic acids, pure stearic acid and traces of liquid fat acids. MeOH yielded crystallized C16H26O6, m. 214.5°, apparently unstable No physiol. lest could be made of this substance. A 70% alc. extract yielded after acetylizing tetraacetyl ellagic acid, m. 334°, saponified with Ba(OH)2 to ellagic acid. Gallic acid was absent, but luteic acid very probably present.

Hit Structure

CAS Registry Number 476-67-5 CAPLUS

Chemical or Trade Name 6H-Dibenzo(b,d)pyran-1-carboxylic acid, 3,4,8,9,10-pentahydroxy-6-oxo-(CA INDEX NAME)

L8 ANSWER 159 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1941:27627 CAPLUS Full-text

Document Number 35:27627

Title

Cannabis indica, VI. The condensation of pulegone with alkyl resorcinols. A new synthesis of cannabinol and of a product with hashish activity

Author/Inventor

Ghosh, R.; Todd, A. R.; Wright, D. C.

Journal of the Chemical Society (1941) 137-40 CODEN: JCSOA9; ISSN: 0368-1769

Document Type

Language Unavailable

Abstract
cl. C. A. 35, 742.3. Crude pulegol (20 g.), 10 g. orcinol monohydrate (I), 20 g. anhydrous ZnCl2 and 200 cc. decalin, heated at 130-40° for 2 hrs., give 6*-hydroxy-2,25'.4"-tetramethyl-1',2',3'.4',5'.6'- hexahydrodibenzopyran, yellow viscous oil, b. 140-50° (bath temperature)/10-2; it gives a blue color with 2,6-dichlorobenzoquinonechloroimide (II), but no color with EtOH-KOH; light absorption in EtOH shows a maximum at 2800 A. (c 1300) and a min. at 2670 A. Refluxing 5 cc. pulegone, 5.5 g. I and 30 cc. 98-9% HCO2H for 3.5 hrs. and hydrolysis with MeOH-KOH give a mixture of isomers (III), C17H22O2, b. 150° (bath temperature)/2 + 10-3 m., maximum absorption 2750 A. (c ca. 5000), min. 2500 A.; the III obtained in various expts. give a blue color with II but no color with EtOH-KOH. 6*-Acetoxy-2,2.5',4*-letramethyl-3',4',5',6*-letrahydrodibenzopyran (C. A. 34, 7907.6), heated with Pd-C at 300-20° until evolution of H ceased, gives after removal of the Ac group by MeOH-KOH 6*-hydroxy-2,2.5',4*-letramethyldibenzopyran (IV), b. 152° (bath temperature)/10-3 mm., maximum absorption at 2820 A. (c 14,740), min. at 2500 A.; print/benzopate, pale yellow, m. 215-16°. Dehydrogenation of III (as the accessed) also gives to V. Condensation of pullegone and olivetol monohydrate with HOC2H (efficially gas a tetrahydrodibenzopation) (V), C21H3002, b. 170° (bath temperature)/10-3 mm., absorption maximum 2760 A. (c 6200), min. 2490 A.; it gives a blue color with II; it is pharmacol. active in the Gayer test on rabbits (2.5 mg./kg.) but inactive at 1 mg./kg. Dehydrogenation of V gives cannabinol.

Hit Structure

CAS Registry Number 1194687-95-0 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-1-ol, 3,6,6,8-tetramethyl- (CA INDEX NAME)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L8 ANSWER 160 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number 1941:4532 CAPLUS <u>Full-text</u>

Document Number

Title

Cannabis indica. V. Synthesis of cannabinol

Author/Inventor

Ghosh, R.; Todd, A. R.; Wilkinson, S.

Source

Journal of the Chemical Society (1940) 1393-6 CODEN: JCSOA9; ISSN: 0368-1769

Document Type Journal

Language Unavailable

Abstract

ct. C. A. 34, 7907.6. In previous papers evidence has been presented that cannabinol is 6"-hydroxy-2,5'-trimethyl-4"-amyldibenzopyran(l); this has been confirmed by the synthesis of I. Model expts. were first carried out with more accessible materials than olevitol. 7-hydroxy-3,4-cyclohexenocoumarin (ll) (27 g), refluxed with 120 cc. of 15% aqueous NAOH, 30 cc. Me2SO4 slowly added and heating continued for 2 hrs., Me2SO4 and NaOH being added from time to time, gives 24 g. of 1+(2",4-climethyxyphenyl)-1-cyclohexene-2-carboxylic acid, m. 153-4"; Et ester (lll), b0.04 130-40"; m. 48". 7-hydroxy-3,4-benzocoumarin (lV), m. 233", was prepared in the following ways: heating 18. g. of III with 0.4 g. Sat about 300" for 4 hrs., and refluxing with 15 cc. 48% HB for Es, give 0.7 g. IV; heating III with Set at 300-20" for 24 hrs.; gives 0.5 g. IV; 10 g. Il and Set at 300-20" for 36 hrs.; give 6 g. of IV; heating III with Set at 300-20" for 24 hrs.; gives 0.5 g. IV; 10 g. Il and Set at 300-20" for 36 hrs.; give 6 g. of IV; heating III with Set at 300-20" for 24 hrs.; gives 0.5 g. of IV; heating 10.5 g. of IV. Heating 6"-acetoxy-2-2.4"-trimethyl-3",4".5",6-tetrahydrodibenzopyran, heated with P4C-ct at 300-10" for 30 min.; gives a nearly quant. yield of 6"-hydroxy-2.2.4"-trimethyl-3",4".5",6-tetrahydrodibenzopyran, in 148" for 300-10" for 30 min. gives atter hydrolysis 5-hydroxy-2.2.5-trimethyl-3",4".5",6-tetrahydrodibenzopyran, gives atter hydrolysis give 1. 6"-hydroxy-2.2.5"-trimethyl-3",4".5",6-tetrahydrodibenzopyran, a yellowish resin, b. 130-5" at 10-2 mm. Heating the Ac derivative with P4C-ct at 300-10" gives 3"-hydroxy-2.2.5-trimethyl-3",4-5",6-tetrahydrodibenzopyran, a yellowish resin, b. 130-5" at 10-2 mm. Heating the Ac derivative with P4C-ct at 300-10" gives 3"-hydroxy-2.2.5"-trimethyl-3",4-5",6-tetrahydrodibenzopyran, a yellowish resin, b. 130-5" at 10-2 mm. Heating the Ac derivative with P4C-ct at 300-10" gives 3"-hydroxy-2.2.5"-trimethyl-3",4-5",6-tetrahydrodibenzopyran, a yellowish resin, b. 130-5" at 10-2 mm. Hit Structure

CAS Registry Number 1194700-82-7 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-6-one, 1-hydroxy-8-methyl-3-pentyl- (CA INDEX NAME)

OS.CITING REF COUNT:

THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)

L8 ANSWER 161 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN L8 ANSWED 15. -Accession Number 1940:51696 CAPLUS <u>Full-text</u>

34:51696

Title

Cannabis indica. III. The synthesis of dibenzopyran derivatives, including an isomer of cannabinol

Author/Inventor

Ghosh, R.: Pascall, D. C. S.: Todd, A. R. Source

Journal of the Chemical Society (1940) 1118-21 CODEN: JCSOA9; ISSN: 0368-1769

Document Type Language Unavailable Journal

ct C. C. A. 34, 5452.3. 3,4-AcNH(NC)C6H3Me in Ac2O-AcOH at 0° gives 90% of 3-N-nitrosoacetamido-4-cyanotoluene (I), pale yellow, very unstable, decomps. explosively on heating; on standing in C6H6 1.75 g. of 1 gives 0.83 g. of 2-cyano-5-methylbiphenyl, m. 87-8°, N being evolved. 1 and quinoi di-Me ether at 60° (8 hrs.) gives 41% of 2-cyano-2,5-dimethoxy-5'-methylbiphenyl (II), m. 97°, di-Et analog, m. 72-3° (24%). Refluxing 9 g. II with concentrated HBr gives 8 g. of 6-hydroxy-5'-methyl-19-4,4-benzocoumarin, m. 293-4°; acetate (III), m. 155°; 5 g. of III with MeMgl in Et2O-PhOMe gives 4 g. of 5'-hydroxy-5-methyl-19-4,4-benzocoumarin given in 70-g. yield from 61 g. of PrOC2H) gives an Ac derivative, yellow, m. 72-3° (PLXPOCNHNI2-RCIT in E1OH gives a mixture of the semicarbazone, pale green, m. 159-60°, and the ketazine, yellow, m. 161-2°]. I (8 g.) and 68 g. 2,5-(MeO)2C6H3-Am at 45-50° give 3.5 g. of 2-cyano-2,5-dimethoxy-5'-methyl-4-amylbenzene, b.0.036 95-100°; refluxing with HBr for 5 hrs. gives 6-hydroxy-5-methyl-7-amyl-3,4-benzocoumarin, m. 191-2°, acetate (IV), m. 138-9°; IV and excess MeMgl gives 5'-hydroxy-2,2,5'-timethyl-4'-amyldbenzopyran, m. 110-11°, absorption maximum in E1OH at 2475, 2765, 3400 A. (e 11,550, 10,560, 7450). It is inactive in the Gayer test on rabbits at a dose of 5 mg./kg. I and orcinol di-Me ether give 2-cyano-2,6'-dimethoxy-4',5-dimethyl-2abenzene, bright red, m. 126°. Efforts to condense 3-N-nitrosoacetamidotoluene with Et veratrate yielded only a tarry product.

Hit Structure

CAS Registry Number 1195630-93-3 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-2-ol, 6,6,8-trimethyl-3-pentyl- (CA INDEX NAME)

L8 ANSWER 162 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1933:41536 CAPLUS Full-lext

Document Number 27:41536

Title

Biochemistry of microorganisms. XXVII. The production of luteic acid from various sources of carbon by Penicillium luteum Zukal

Author/Inventor

Birkinshaw, John H.; Raistrick, Harold

Biochemical Journal (1933), 27, 370-5 CODEN: BIJOAK; ISSN: 0264-6021

Document Type Journal

Language Unavailable

d. C. A. 26, 4338. Luteic acid is elaborated by Penicillium luteum Zukal when grown in a synthetic medium containing as the sole source of C any of the following: glucose, fructose, galactose, mannose, xylose, arabinose and glycerol. Since luteic acid gives malonic acid and glucose on acid hydrolysis, proof is afforded of the conversion by this organism of the hexoses fructose, galactose and mannose, of the pentoses xylose and arabinose into glucose.

Hit Structure

CAS Registry Number 476-67-5 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-1-carboxylic acid, 3,4,8,9,10-pentahydroxy-6-oxo-(CA INDEX NAME)

OS.CITING REF COUNT: THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD

L8 ANSWER 163 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number 1932:23613 CAPLUS <u>Full-text</u>

Document Number

26:23613

Title

Biochemistry of microorganisms. XIII. New type of mucilaginous material, luteic acid, produced from dextrose by Penicillium luteum, Zukal

Raistrick, H.; Rintoul, M. L.

Source

Trans. Roy. Soc. (London) (1931), B220, 255-68

Document Type Journal

Language

Unavailable

. P. luteum, Zukal, produces a colloidal material, luteic acid (Na salt, [α]546190 -47°), which on hydrolysis with N H2SO4 gives dextrose and malonic acid. Hydrolysis with 0.25 N Ba(OH)2 gives malonic acid and a polysaccharide, luteose, [c]5461 -46.4°, yielding dextrose on acid hydrolysis. The poly-saccharide unit of luteic acid is a condensation product of 2 mols. of dextrose with 1 of malonic acid with loss of 2 mols. of water, in which one CO2H group is free, while the other is combined and the CHO groups are linked in such a way as to destroy their aldehydic properties.

Hit Structure

CAS Registry Number 476-67-5 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-1-carboxylic acid, 3,4,8,9,10-pentahydroxy-6-oxo-(CA INDEX NAME)

L8 ANSWER 164 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number 1920:2516 CAPLUS <u>Full-text</u>

Document Number

14:2516

Title

The tannin of the knopper gall

Author/Inventor

Nierenstein, Maximilian

Patent Assignee/Corporate Source Univ. Bristol

Source

Journal of the Chemical Society, Transactions (1919), 115, 1174-80 CODEN: JCHTA3; ISSN: 0368-1645

Document Type

Language Unavailable

to Knopper tannin was prepared by extracting finely powdered and sieved knopper with boiling CHCl3 or C2H2Cl4, to remove the gall tats, and then with acetone. The acetone extract was made up to 1.5.1 and the tannin precipitated with 300 cc. light petroleum. Purified by repptn., the tannin was a pale colored, amorphous, hygroscopic substance which neither melted nor decomposed when heated above 300°. It was soluble in alc., acetone, ethyl acetate, acetic acid and water and insol. in C6H6, CHCl3, and light petroleum. It gave a greenish blue solution with FeCl3 and the aqueous solution precipitated alkalodis and gelatin and is quant. adsorbed by caseingen. Combustion gave C = 54.3%, H = 2.1%. Mol. weight in acetone 1628; 1654, 1708 and in alc. 1744, 1682, 1664. [c]D17 = +31.8 in alc., and +8.4 in acetone. Other samples gave these analytical values of the same order. Hydrolysis with dilute H2SO4 gave ellagic acid and dextrose. Analytical constants are given. The tannin was methylated with diazomethane in ethereal suspension. The product was an amorphous, colorless' product, with no definite m. p., soluble in alc., acetone, CHCl3 and CEHCl40 but insol. in water or light petroleum. OMe, 3.9, 3.74, 3.73, 3.73 was obtained. Slightly variable results for other consts. are given. The methylation may be pentamethoxyluteosie, which crystallizes from alc. in small needles, m. 110°. The insol. traction is appearently mostly tetramethoxyluteosic acid. Further methylation gave the same product as fraction I. Knopper tannin is composed of luteoic acid and dextrose, the luteoic acid being predominant. Numerous references are given.

Hit Structure

CAS Registry Number 19491-16-8 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-1-carboxylic acid, 3,4,8,9,10-pentamethoxy-6-oxo-, methyl ester (CA INDEX NAME)

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, L8 ANSWER 165 OF 165 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1909:262 CAPLUS Full-text Document Number 3:262
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Title Constitution of Tannin, IV

Author/Inventor Nierenstein, M.

Patent Assignee/Corporate Source
Runcorn Research Lab., School Tropical Med., Liverpool

Source

Berichte der Deutschen Chemischen Gesellschaft (1909), 41, 3015-9 CODEN: BDCGAS; ISSN: 0365-9496

Document Type Journal

Language Unavailable

Unavailable

Abstract

cf. C. A., 1908, 1137. When boiled with aqueous H2O2 tannin yields a mixture of ellagic acid, formula (I) below, and pentahydroxydiphenylmethylolidecarboxylic acid ("luteolic acid") (II). Aggregates of reddish brown needles, darkens 305", decomposes and evolves gas 338-42". It gives a reddish brown color with NaHCO3 and a yellow one with concentrate H2SO4; this acid and also Na2CO3 transforms it into ellagic acid. The same effect is produced with acetylating agents. Treatment with HI and pyridine yields pentahydroxydiphenylmethylolide. Tetraacetyldigallide and COCl2, in presence of pyridine, yields tetraacetyldigallide (III); needles, m. 130-2". Concentrate H2SO4 produces a yellow solution; alcoholic H2O2 converts it into ellagic acid, and dilute alcoholic-aqueous H2SO4 hydrolyzes it to gallic acid. These results agree with the formula (IV) for tannin.

CAS Registry Number 476-67-5 CAPLUS

Chemical or Trade Name 6H-Dibenzo[b,d]pyran-1-carboxylic acid, 3,4,8,9,10-pentahydroxy-6-oxo-(CA INDEX NAME)